User Computer System Pilot Project

Edward C. Eimutis

September 6, 1989

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Abstract

The User Computer System (UCS) is a general purpose unclassified, nonproduction system for Mound users. The UCS pilot project was successfully completed, and the system currently has more than 250 users. Over 100 tables were installed on the UCS for use by subscribers, including tables containing data on employees, budgets, and purchasing. In addition, a UCS training course was developed and implemented.

Introduction

The User Computer System (UCS) was in the planning stages for quite some time. (It was originally called the End User Computer System.) It was first proposed in the Automatic Data Processing (ADP) Long Range Plan dated February 1983. Originally conceived as a decision support processor, it evolved over the years into a database and information support tool. This was a logical progression, as the availability of professional workstations (IBM personal computers) adequately served many decision support functions. However, two functions were still missing: the ability to easily access and manipulate plantwide data and the ability to readily share departmental data. These functions were identified as most important in a survey reported in *Mound End User Information-Handling Requirements* [1]. The ORACLE product set was selected to meet the stated user requirements.

The initial pilot group comprised 14 persons. These individuals were given tutorials and demonstrations in the use of the ORACLE products on the UCS. References for ORACLE documentation were supplied in the event the users needed additional documentation. The early arrival of an application, time sheets, and the Project Accounting and Control System (PACS) increased the user base to some 150 subscribers by the end of the project.

A letter soliciting pilot participation was sent to the end user group members. A copy of the letter is shown in Appendix A. The initial pilot

user group was composed of the following users:

George L. Ball	Thomas Z. Jones
Philip D. Bantz	Donald E. Sharp
Brady V. Barnhart	Robert L. Stanley
William R. Fearheller	R. Steven Tunning
Nancy Guinta	Robert A. Welch
Daniel R. Hill	W. Doug Williams
Thomas W. Hughes	David A. Zorich

Because of the development of the Project Accounting and Control System and the time sheet entry system for the Applied Computer and Systems Technology (AC&ST) section, all personnel in AC&ST were added as ORACLE subscribers. Although not officially members of the pilot study group, they provided valuable insights and observations on the various operations of the UCS.

System Overview

The system manager for the UCS was John Edelmann. The database administrator (DBA) was John Gondert. They were responsible for creating user accounts, managing disk space, and managing the ORACLE system on the UCS.

Any Mound employee who has a terminal or personal computer (PC) may subscribe to the UCS. The forms for requesting access may be found in the Information Center in OSW-136.

An introductory course on using ORACLE on the UCS is available. To get the maximum use out of the UCS, prospective subscribers are urged to take the course prior to using the ORACLE system. Persons interested in taking the introductory course should contact Lynn Taylor at extension 3899 or Nancy Howell at extension 3724.

Storage space for user-created tables will be made available to those individuals who need to create and share data on the UCS. Five Mbytes of on-line disk storage will be allocated to each user for table and program storage.

Any UCS subscriber may request that specific unclassified data residing on the production computer system (PCS) be moved into ORACLE tables on the UCS. This request should be forwarded via the automated office support system (AOS) to the Information Center (INFOCNTR), or the requestor may contact the Information Center in OSW-136 (extension 3724). The request will be evaluated based on the number of users who would benefit, the complexity and difficulty of the transfer, and the availability of resources to accomplish the transfer.

Creating copies of publicly available tables is strongly discouraged. Persons who want only specific columns of data from an ORACLE table should create a VIEW of the desired table. A VIEW takes up no storage space and provides the same functionality as a limited portion copy of a table.

Naming Conventions

A plantwide naming data dictionary is available to all ORACLE users in the SQL*DESIGN DICTIONARY (SDD) product.

If a column refers to the health physics (HP) number of a manager and will store HP numbers, then the column should be named HPNO_MANAGER and not MANAGER_HPNO. Similarly, if the reference is to the cost center of the sponsor, the column name should be COST_CENTER_SPONSOR, not SPONSOR_COST_CENTER. All table and column names may be up to 30 characters long. Descriptive names connected with an underscore (_) should be used for both table and column names (e.g., DATE_ASSEMBLY_TESTED, FACTOR_TO_MAKE_SCHEDULE_OK, DESCRIPTION_ACST_PROJECT, CHEMICAL_FORMULA_ORGANIC, VOLUME_OF_PIT_STP, DATE_GAGE_LAST_CALIBRATED).

An additional feature available in SDD and a convention that may be useful is to prefix all tables within an application with the same letters (e.g., PROCODE tables currently all start with PC...; TIPS tables could all start with TIPS...). Also, within a specific table it may be helpful to prefix all column names with the same letters. This makes joins easier because the primary keys and foreign keys have unique names in each table.

The SDD should be used for all single table and multiple table applications that are placed on the UCS. As a minimum, all entities and attributes should be defined using SDDMENU.

Applications

In ORACLE terminology, an "application" consists of an SQL*FORMS file with a file type of .INP. The machine language run time-version version has a file type of .FRM. The .INP file is ASCII and provides the ability to move applications from one hardware architecture to another. A single ORACLE application may contain from one to N screens and in some instances may be the whole application as users think of it (e.g., PACS).

At this point there are over 720 ORACLE applications existing on the UCS and defined in the ORACLE active data dictionary table IAPAPP.

All the applications are cataloged by the ORACLE active data dictionary. Also, every field definition and specification, every trigger definition (including its syntax), and the screen mapping for the layout for the form are stored in the active data dictionary. Thus, application design in ORACLE is an integral, active part of the overall relational process. All these tables are publicly available for selection and can be used for either stored query execution or ad hoc query selection. Maintenance in this environment should be much easier, assuming most applications are written in SQL*FORMS and individuals performing the maintenance are well-versed in SQL*PLUS and SQL*FORMS.

An ORACLE form is composed of blocks that may refer to ORACLE tables. Blocks may span one or more "pages" or screens. Currently, there are almost 400 blocks defined in the ORACLE active data dictionary table IAPBLK for various applications.

An ORACLE block comprises one or more enterable or displayable fields. Field specifications are stored in the ORACLE dictionary table IAPFLD. Currently, there are over 15,000 fields defined in table IAPFLD.

An ORACLE field may have one or more "triggers" associated with it to control information or logic flow throughout the application and to perform various edits against the data entered into the fields. Trigger specifications are stored in the ORACLE dictionary tables IAPTRG and IAPTRIGGER. Presently, there are over 15,000 triggers defined in the active ORACLE data dictionary.

ORACLE fields within a block are mapped to specific screen coordinates. The coordinates, the page reference, and the associated text for the field are stored in the ORACLE dictionary table IAPMAP. There are over 13,000 entries in this table at the present time.

Column names and column specifications for the IAP tables are presented in Appendix B.

Tables

The pilot user tables, including the system tables, number over 570 at this time. The tables include larger databases that were uploaded from user PCs and data downloaded from the PCS. In addition, over 100 views were created and over 300 synonyms are available on the UCS. A complete listing of tables, views, and synonyms can be found in Appendix C.

PCS Data on the UCS

Procedures were developed to extract data from the PCS, verify the data are unclassified, obtain clearance to remove the data from the PCS, upload the data to the UCS, and run SQL*LOADER to move the data into ORACLE tables. These procedures are discussed in Systems Manual 212, *PCS to UCS Data Transfer*. The types of data stored on the UCS are discussed in the following sections.

Purchasing Data

Data from purchasing IMS segments were downloaded and moved to ORACLE tables PURIDESC, PURITEM, PURORDER, and PURRECVT on the UCS.

TRAC Data

Data from TRAC file 21 (lot quantities built, ordered, reworked, etc.),

TRAC file 22 (operations performed on products), and TRAC file 23 (bills of materials) were moved to ORACLE tables XTRAC21, XTRAC22, and XTRAC23, respectively, on the UCS.

Technical Manuals Data

Data from a dBASE file on a PC containing over 4,700 rows of information on technical manuals were loaded into ORACLE table MANUALS on the UCS.

Materials Compatibility Chemical Reactivity Data

Data from a dBASE file on a PC containing over 9,200 rows of information on materials compatibility chemical reactivity tests were loaded into ORACLE table CRTDB on the UCS.

Budget Data

Data for budgeted cost and actual cost were taken from the PCS and stored into ORACLE table BUDGET on the UCS.

Employee Data

Data on employees were moved from the PCS and loaded into ORACLE table EMPLOYEE.

PROCEDURE Data

Table PCPRDMST - This table contains data on product code, product name, drawing prefix, drawing body, and originating agency.

Table PCBLDMST - This table contains data on product code and family; design agency; unit of measure; responsible engineers, managers, and planners; lot size; and various status dates.

Table PCSCHDOP - This table contains data on product ID, operations, setup parameters, process times, tear down parameters, etc.

Table PCWORKOP - This table contains data on operations.

Table PCBLDBOM - This table contains data on bill of materials.

Tables SPACETBL, MGRTABLE, and CCTABLE - These tables contain data on building and room space allocations at Mound by cost center, department, and responsible manager; manager identification; and cost center identification, respectively.

Table VDTABLE - This table is structured after the Variables Data System on the PCS and contains test data.

Tables prefixed with BU - Tables BU_BID, BU_BID_SENIORITY, BU_BID_VIEW, BU_EMP, and BU_JOB contain data for the Bargaining Unit Information System.

Applications Development Tables

MESH - A large number of tables exist that will support the Mound Environmental, Safety & Health (MESH) System. These tables will not be available to the general UCS user community. The MESH System will reside on a separate processor after it is operational.

SDAS - The Secret Document Accountability System (SDAS) tables will not be available on the UCS. These tables will be moved to a classified processor after the software is implemented.

TIPS - A large number of Test, Inspection, and Production System (TIPS) tables are available on the UCS. However, they are developmental and will be moved to a system dedicated to supporting manufacturing.

Software

The ORACLE Relational Database Management System (RDBMS) software on the UCS is composed of the machine-specific kernel; the command language, SQL*PLUS; the user interface, EASY*SQL; the CASE tool, SDD; the distributed processing feature using DECnet, SQL*NET; the ASCII to ORACLE conversion program, SQL*LOADER; the report generator, SQL*REPORT; and the forms processing language, SQL*FORMS.

SQL*PLUS

The ORACLE command language SQL*PLUS contains a full complement of operators to allow English language type constructs for selecting from, inserting into, indexing, updating, and altering ORACLE tables. Also, there are numerous non-SQL primitives for controlling output formats and for controlling terminal and work session characteristics.

For example, to find the employee who has telephone extension 4396:

```
SELECT EMPLOYEE_NAME FROM EMPLOYEE WHERE PHONE_NUMBER='4396';
```

The result is:

```
EMPLOYEE-NAME
-----
EIMUTIS, EDWARD C
```

To find out how many employees are in cost center 294:

```
SELECT COUNT(*) FROM EMPLOYEE WHERE COST_CENTER='294';
```

The result is:

```
COUNT(*)
-----
      12
```

Similarly, to find out how many people are in each building at Mound:

```
SELECT BUILDING,COUNT(*) FROM EMPLOYEE GROUP BY BUILDING;
```

The result is:

```
BUILD  COUNT(*)
-----
101      2
108      2
  2      8
Etc.
```

To list the names and phone numbers of people who work in each building:

```
BREAK ON BUILDING SKIP 1;
ELECT BUILDING,PHONE_NUMBER,EMPLOYEE_NAME
FROM EMPLOYEE
ORDER BY BUILDING,EMPLOYEE_NAME;
```

The result is:

BUILD PHON EMPLOYE_NAME

```
101  3400 LUNSFORD, JOHN
      3400 PECK, ALBERT EDWARD
108  5558 LEVELL, KATHERINE
      5558 RILEY, WAYNE TERRELL
      2  4090 BAILEY, ELAINE
      4306 HART, ROBERT
      4437 HAWLEY, EDWARD A
```

Etc.

EASY*SQL

EASY*SQL is designed for people who need an easy-to-use interface into the ORACLE system. This product features context-sensitive help screens and pop-up windows to provide additional aids in using the product. The main menu allows the selection of QUERY, to generate queries from ORACLE tables; REPORT, to generate formatted reports based on stored queries; EDIT, to change or enter data into ORACLE tables; CREATE, to create ORACLE tables; GRAPH, to graph query results (if the user has a graphics terminal or graphics emulation software); and EXTENDED, to create views, revise table structures, update sets of rows in a table, or delete selected rows in a table.

SQL*DESIGN DICTIONARY

SDD is an active computerized dictionary system, built on top of an ORACLE relational database, which holds and actively manages all the information collected and derived during the development and production run of a business system. SDD consists of over 90 on-line applications screens, reports, and programs which maintain the SDD database and provide a combination of working documents and management information during each stage in the development.

The SQL*DEVELOPMENT METHOD helps the analyst develop business applications that meet user needs. It provides a standard approach to any business requirement and is specifically designed to help multiuser, high-perfor-

mance systems on SQL based RDBMSs. It may also be used to specify and design other systems. This method splits the development process into well-defined and manageable stages. These stages are illustrated in Figure 1.

*Figure 1 - Stages of the SQL*DEVELOPMENT METHOD.*

The stages in a system life cycle are listed below:

- o Strategy - Determine what needs to be done and how much it should cost.
- o Analysis - Specify the user requirements.
- o Design - Decide what the system should look like and what tools and components should be used.
- o Implementation
 - Build - Develop the system.
 - Documentation - Write the user guide.
- o Transition - Implement actions for smooth conversion to the new system.
- o Production - Implement the system and create an environment for ongoing maintenance and enhancements.

During the development of a system, a great deal of information needs to be collected and organized. A design dictionary is a tool for managing

this information throughout the development process.

The SDD is a computerized database system that not only stores information, but also provides active support in the following areas:

- o Determining system requirements and checking the completeness of their specifications.
- o Designing the computer system and manual procedures to meet the requirements.
- o Automating the system implementation.
- o Creating system documentation.

SDD provides the mechanism to undertake continuous consistency and quality checks throughout the analysis and design process, then provides the option to generate relational database structures automatically. SQL statements to create tables, views, and indexes are generated directly from the application. See Appendix D for a sample SDD entity and attribute report.

SQL*NET

ORACLE allows the distributed processing of information stored in various nodes of a DECnet system in a manner totally transparent to the user or application program. Having defined as a database link the location of a table, the user need only enter the synonym name in a selected statement to retrieve data from a remote location. For example, the following steps will allow distributed retrieval from table "nuts_and_bolts" on the remote database "database_test":

```
CREATE PUBLIC DATABASE LINK link_ucs
CONNECT TO system IDENTIFIED BY manager
USING 'D:database_test';
```

```
CREATE PUBLIC SYNONYM tools
FOR nuts_and_bolts@link_UCS;
```

```
SELECT * FROM tools;
```

SQL*LOADER

SQL*LOADER is a product for moving data in external files into tables in an ORACLE database. SQL*LOADER can perform the following functions:

- o Load data from multiple data files of different types.
- o Handle fixed format, delimited format, and variable length records.
- o Support a wide range of data types, including DATE, BINARY, and PACKED DECIMAL.
- o Load multiple tables during the same run, loading selected rows into each table.
- o Combine multiple physical records into a single logical record.
- o Treat a single physical record as multiple logical records.
- o Generate unique, sequential key values in specified columns.
- o Load data from disk or tape.
- o Provide thorough error reporting capabilities so that records can be easily adjusted and reloaded.

SQL*REPORT

SQL*REPORT can be used to create ordinary letters or tabular reports. It can also be used to produce a report from a single ORACLE table, with column headings, columns of database information, and totals as desired. More complex documents SQL*REPORT can generate include reports with many levels of nesting, multiple breaks on columns, and a wide variety of sub-totals and totals, as well as disjunctive reports. Although this product has powerful features, it is difficult to use and is not recommended for the general user environment.

SQL*FORMS

SQL*FORMS lets the users design custom forms appropriate for their information handling functions. These forms allow fast and easy data entry, updates, deletions, and queries to an ORACLE database.

SQL*FORMS gives the user the ability to perform the following functions:

- o Insert data into the database by typing the data directly into the correct fields.
- o View, update, or delete several records on the screen simultaneously.
- o Type query conditions directly into the fields the user wants to query.

In its more advanced uses, SQL*FORMS lets an application developer protect the database, display calculated data, and generate historical records. A wide variety of triggers can be used to maintain consistency among tables, to control and alter the sequence through a series of forms, and to validate data input.

Hardware

A Digital Equipment Corporation (DEC) VAX 8700 with 48 Mbytes of memory was selected as the UCS processor. The processor was clustered with the AOS cluster to provide a high-speed, highly available computing resource to the Mound user community.

Additional Requirements

Training

UCS USER TRAINING

Mound Training personnel have developed and are currently offering a course on using ORACLE in the UCS environment. The course is in its initial stages and no recommendations are available at this time. Once sufficient feedback has been collected, any necessary changes will be recommended.

APPLICATION DEVELOPER TRAINING

The ORACLE product set for application developers is complex. The number of trained ORACLE application developers needs to be increased. An in-house course for application developers should be made available.

The SDD is an important product for application development at Mound. In-house training on the benefits and uses of SDD needs to be made available to the application developers and other interested parties.

Software

SQL*REPORT WRITER

The reporting features of the ORACLE product set currently on the UCS are deficient from an end-user perspective. Although the report option in EASY*SQL can handle simple report generation in a user-friendly fashion, purchasing and installing the SQL*REPORT WRITER on the UCS is recommended.

ORACLE TPS

Version 6.0 of the ORACLE product will have an optional Transaction Processing System (TPS) to speed up queries and other SQL operations. Based upon the size of the tables the users will be querying and the speed of some of the queries, the TPS enhancement will provide significant response time improvements. Purchasing the TPS option of the version 6.0 upgrade for the UCS is recommended.

APPLICATION FOUNDATION

Application Foundation is an advanced tool set used for building commercial-quality applications. It is fully integrated with the new version 3.0 of SQL*FORMS. Purchasing and installing the Application Foundation tool set on the UCS is recommended.

ALL-IN-1

Access to predefined applications (e.g., PACS and TIMESHEETS) can be made available directly from menu choices on AOS. The DEC ALL-IN-1 product license should be purchased for the UCS.

SQL*A1

An interface between ORACLE and ALL-IN-1, SQL*A1, will allow users to store and retrieve ALL-IN-1 documents in ORACLE and to retrieve ORACLE held data or text into ALL-IN-1 documents. Purchasing this product for the UCS is recommended.

CASE TOOLS

Computer-aided software engineering (CASE) is an emerging technology that provides automated support for software developers at all levels. The ORACLE CASE family consists of CASE*METHOD, CASE*DICTIONARY, and

CASE*DESIGNER, ORACLE's new graphic interface to CASE*DICTIONARY. SDD should be upgraded to CASE*DICTIONARY, and CASE*METHOD and CASE*DESIGNER should be purchased and installed on the UCS.

Hardware

DISK STORAGE

With the allocation of 5 Mbytes of disk space for each user, 200 subscribers (the number expected to be using the UCS by the end of CY 1988) will require 1 Gbyte of disk space. Production tables moved from the PCS are likely to take another 1 Gbyte of disk storage. Currently, 2.5 Gbytes exist for user table and system table storage. The new DEC SA-600 disk storage unit with 10 Gbytes of storage was procured in mid-1989.

PROCESSORS

The current VAX 8700 should be adequate in terms of simultaneous user support and response time well into 1989. However, this is based on published reports and not on experience at Mound. The 8700 should be upgraded sometime in FY 1990. Utilization and response time data should be used to determine whether the upgrade should be to a VAX 6000-410 or to a dyadic VAX 6000-420 processor.

Database Administration

The DBA for the UCS will need to develop procedures and standard programs for account maintenance and table maintenance. A conversion to version 6.0 will occur soon. An ORACLE hardware consultant should be brought in to help tune the system for TPS after the version 6.0 installation.

Summary

The UCS pilot project was successfully completed. The ORACLE RDBMS was installed and is fully operational on a DEC VAX 8700. The VAX 8700 is dedicated to the Mound user community to meet its various computing needs. It is an unclassified, interactive processor that can accommodate 120 users simultaneously. Fourteen users initially participated in the pilot project, but by the end of the project there were over 150 subscribers.

Over 100 tables are available for use by UCS subscribers. These tables contain purchasing data, TRAC data, employee data, budget and cost data, the Mound data dictionary, TIPS data, project status data, design dictionary entries, and several tutorial tables. Operational software and procedures were written and implemented to download data from the PCS and upload it into ORACLE tables on the UCS. An introductory course was developed and an initial user group has undergone training.

Acknowledgments

Dan Hill was the prime mover in finally obtaining a general purpose, unclassified, nonproduction computer for the exclusive interactive use of the Mound community. Dave Michaels and his Computer Operations staff also provided valuable assistance for this project. Also invaluable was the dedicated programming and training support of individuals in Ron D'Amico's group: Chris Brunson, Ron Bundy, and Nancy Howell. John Edelman provided systems management services, and John Gondert provided not only the needed experience to make some nearly impossible tasks seem easy, but also the single-minded inspiration to keep us moving forward when all movement had ceased.

Reference

1. Eimutis, E. C., Mound End User Information-Handling Requirements, MLM-MU-87-61-0022, EG&G Mound Applied Technologies (January 1987), 49 pp.

Appendix A

Letter Soliciting Pilot Participation

A large scale computer and integrated software tools are being acquired and will be dedicated to meet the general unclassified information handling needs of the Mound user community.

The User Computer System (UCS) will not run any batch jobs and will not be used for any "production" type of work. It will be an interactive, easy to use system, dedicated to meeting your unclassified information handling needs. Unclassified production, Cost center financial, ESO, purchasing and other data available on the Production Computer System (PCS) will be made available on the UCS.

We are looking for individuals to participate as members of a pilot group to implement the UCS. As a member of the pilot group you will be asked to spend about one man-week of effort over the next two months doing the following tasks.

- * Identifying data that you need to access and retrieve.
- * Learning to use the system.
- * Using the system.
- * Providing feedback on how adequately the system met your needs.
- * Filling out a survey questionnaire.
- * Suggesting other applications that would meet your information handling needs.
- * Attending two meetings.

You should also meet the following criteria.

- * You should be an AOS user.
- * You should have a periodic need to access unclassified data on the mainframe (purchase order status, ESO status, and so on).
- * You should not be an expert computer user. We want to evaluate the ease of use of the system by the infrequent computer user.
- * You should have your supervisor's approval to participate. Even though your involvement will be less than a man-week of effort, your supervisor will need to agree on your participation.

If you satisfy these requirements and would like to participate in the pilot group, please reply to this memo via AOS indicating your interest.

Thank you.

Ed Eimutis
Senior Coordinator IV
Integrated Systems Management Group

P.S. Whether you are or are not interested in being a member of the pilot study group, would you take a moment and send a list to me of unclassified data that you need to access most frequently? Thank you.

Appendix B

Description of IAP Tables

Table IAPTRG.

Name	Null?	Type
TRGAPPID	NOT NULL	NUMBER
TRGBLK		CHAR(30)
TRGFLD		CHAR(30)
TRGTYPE		CHAR(30)
TRGSEQ		NUMBER
TRGLABEL		CHAR(30)
TRGSQL		NUMBER
TRGCURS		CHAR(1)
TRGMVE		CHAR(1)
TRGINV		CHAR(1)
TRGROLL		CHAR(1)
TRGSLAB		CHAR(30)
TRGFLAB		CHAR(30)
TRGMSG		CHAR(80)

Table IAPTRIGGER.

Name	Null?	Type
TRIGAPPID	NOT NULL	NUMBER
TRIGBLK		CHAR(30)
TRIGFLD		CHAR(30)
TRIGTYPE	NOT NULL	CHAR(30)
TRIGDESC		CHAR(20)
TRIGHIDE		CHAR(1)

FLDTYPE	CHAR(7)
FLDLEN	NUMBER
FLDDLEN	NUMBER
FLDQLEN	NUMBER
FLDBTAB	CHAR(1)
FLDKEY	CHAR(1)
FLDCKBLK	CHAR(30)
FLDCKFLD	CHAR(30)
FLDDFLT	CHAR(80)
FLDDISP	CHAR(1)
FLDPAGE	NUMBER
FLDLINE	NUMBER
FLDCOL	NUMBER
FLDPROMPT	CHAR(80)
FLDPRABOV	CHAR(1)
FLDPRRPT	CHAR(1)
FLDENTER	CHAR(1)
FLDQUERY	CHAR(1)
FLDUPDATE	CHAR(1)
FLDUPDNUL	CHAR(1)
FLDMAND	CHAR(1)
FLDFIXED	CHAR(1)
FLDSKIP	CHAR(1)
FLDHIDE	CHAR(1)
FLDAUTOHLP	CHAR(1)
FLDUPPER	CHAR(1)
FLDLOVT	CHAR(61)
FLDLOVC	CHAR(30)
FLDLOW	CHAR(30)
FLDHI	CHAR(30)
FLDHELP	CHAR(80)

Table IAPMAP.

Name	Null?	Type
MAPAPPID	NOT NULL	NUMBER
MAPPAGE	NOT NULL	NUMBER
MAPLINE		NUMBER
MAPGRPH		CHAR(1)
MAPTEXT		CHAR(132)

Table IAPSQLTXT.

Name	Null?	Type
SQTAPPID	NOT NULL	NUMBER
SQTNO	NOT NULL	NUMBER
SQTLIN		NUMBER
SQTTEXT		CHAR(80)

Table IAPAPP.

Name	Null?	Type
APPID	NOT NULL	NUMBER
APPOWNER	CHAR(30)	
APPNAME	NOT NULL	CHAR(30)
APPTITLE	CHAR(80)	
APPWKSIZE	NUMBER	

Table IAPBLK.

Name	Null?	Type
BLKAPPID	NOT NULL	NUMBER
BLKNAME	NOT NULL	CHAR(30)
BLKDESC		CHAR(60)
BLKHIDE		CHAR(1)
BLKSEQ		NUMBER
BLKUNQKEY		CHAR(1)
BLKCTRL		CHAR(1)
BLKTOWNER		CHAR(30)
BLKTNAME		CHAR(30)
BLKNOREC		NUMBER
BLKNOBUF		NUMBER
BLKBLIN		NUMBER
BLKLNRC		NUMBER
BLKOBYSQL		NUMBER

Table IAPCOMMENT.

Name	Null?	Type
CMTAPPID	NOT NULL	NUMBER
CMTBLK		CHAR(30)
CMTFLD		CHAR(30)
CMTTRGTYP		CHAR(30)
CMTTRGSEQ		NUMBER
CMTLINE		NUMBER
CMTTEXT		CHAR(80)

Table IAPFLD.

Name	Null?	Type
FLDAPPID	NOT NULL	NUMBER
FLDBLK	NOT NULL	CHAR(30)
FLDNAME	NOT NULL	CHAR(30)
FLDSEQ		NUMBER

Appendix C

ORACLE Tables, Views, and Synonyms

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-4	GONDJW	APPLICATION_ENTITIES	SYNONYM
-13	GONDJW	APPLICATION_FUNCTIONS	SYNONYM
-9	GONDJW	APPLICATION_TABLES	SYNONYM
4481	GONDJW	BUDDEC	VIEW
5942	GONDJW	BUDFEB	VIEW
8096	GONDJW	BUDGET	TABLE
5058	GONDJW	BUDJAN	VIEW
9736	GONDJW	BUDMAR	VIEW
6227	GONDJW	BUDNOV	VIEW
5321	GONDJW	BUDOCT	VIEW
-7	GONDJW	CODE_CONTROLS	SYNONYM
7976	GONDJW	DATA_DICT	TABLE
16349	GONDJW	DISKSPAC	TABLE
11586	GONDJW	DUMMY	TABLE
15891	GONDJW	EMPLOYEE	TABLE
5178	GONDJW	EMPLOYEE	TABLE
15534	GONDJW	EMPMSUM	VIEW
-14	GONDJW	ENTITIES	SYNONYM
2491	GONDJW	EZCONTROL	TABLE
2536	GONDJW	FIELDDESC	TABLE
15529	GONDJW	MAILDATA	TABLE
18711	GONDJW	PURIDESC	TABLE
19151	GONDJW	PURITEM	TABLE
19351	GONDJW	PURORDER	TABLE
19541	GONDJW	PURRECVT	TABLE
6681	GONDJW	QMX_INTERNAL_DATA	TABLE
-6	GONDJW	REF_VALUES	SYNONYM
3206	GONDJW	SDD_ENTITY	TABLE
-17	GONDJW	SDD_APPLICATION_DATASTORES	SYNONYM
-17	GONDJW	SDD_APPLICATION_MODULES	SYNONYM
-23	GONDJW	SDD_APPLICATION_SYSTEMS	SYNONYM
-12	GONDJW	SDD_ARC_ENTRIES	SYNONYM
-15	GONDJW	SDD_ATTRIBUTES	SYNONYM
-16	GONDJW	SDD_ATTRIBUTE_VALUES	SYNONYM
-19	GONDJW	SDD_CC_ATTRIBUTES	SYNONYM
-14	GONDJW	SDD_CC_COLUMNS	SYNONYM
-19	GONDJW	SDD_CHANGE_HISTORY	SYNONYM
-10	GONDJW	SDD_COLUMNS	SYNONYM
-11	GONDJW	SDD_COLUMN_ALIASES	SYNONYM
-14	GONDJW	SDD_COMMON_RELATIONSHIPS	SYNONYM
-17	GONDJW	SDD_DATAFLOWS	SYNONYM
-2	GONDJW	SDD_DATASTORES	SYNONYM
-9	GONDJW	SDD_DESCRIPTIONS	SYNONYM
-16	GONDJW	SDD_DFLOW_ATT_USAGE	SYNONYM
-13	GONDJW	SDD_DOMAINS	SYNONYM
-17	GONDJW	SDD_DOM_COL_ATTS	SYNONYM
-1	GONDJW	SDD_DSTORE_ATT_USAGE	SYNONYM
-20	GONDJW	SDD_ENT_TREE	SYNONYM
-17	GONDJW	SDD_ERRORS	SYNONYM
-9	GONDJW	SDD_EVENTS	SYNONYM
-11	GONDJW	SDD_FILES	SYNONYM
-12	GONDJW	SDD_FUNCTIONS	SYNONYM
-4	GONDJW	SDD_FUNCTION_MODULE_IMPL	SYNONYM
-14	GONDJW	SDD_FUNC_ATTR_MATRIX	SYNONYM
-18	GONDJW	SDD_INDEXES	SYNONYM
-24	GONDJW	SDD_INDEX_ENTRIES	SYNONYM
-24	GONDJW	SDD_MENU	SYNONYM
-2	GONDJW	SDD_MODULES	SYNONYM
-24	GONDJW	SDD_MOD_COL_USAGE	SYNONYM
-8	GONDJW	SDD_NOTES	SYNONYM
-22	GONDJW	SDD_RELATIONSHIP_ENDS	SYNONYM
-2	GONDJW	SDD_RELATION_SELECTIONS	SYNONYM
-16	GONDJW	SDD_RELEASE_NOTES	SYNONYM

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-15	GONDJW	SDD_RESERVED_NAMES	SYNONYM
-8	GONDJW	SDD_SELECT_TEXT	SYNONYM
-2	GONDJW	SDD_SPACE_DEFINITIONS	SYNONYM
-21	GONDJW	SDD_SYNONYMS	SYNONYM
-17	GONDJW	SDD_TABLE_MODULE_USAGE	SYNONYM
-15	GONDJW	SDD_TAB_DEFS	SYNONYM
-10	GONDJW	SDD_TERMS	SYNONYM
-21	GONDJW	SDD_TRIGGER_REFS	SYNONYM
-3	GONDJW	SDD_UNIQUE_IDENTIFIER_ENTRIES	SYNONYM
-2	GONDJW	SDD_VALIDATION_RULES	SYNONYM
-1	GONDJW	SDD_VRELEND	SYNONYM
-18	GONDJW	SDD_WEIGHTING_FACTORS	SYNONYM
-1	GONDJW	SDD_WHERE_CONDITIONS	SYNONYM
-25	GONDJW	TAB_ENTS	SYNONYM
7526	GONDJW	TIMEHOURS	TABLE
-24	GONDJW	USAGE	SYNONYM
9884	GONDJW	VENDOR	TABLE
9944	GONDJW	VENDOR_ADDR	TABLE
17178	GONDJW	WAREHS_ITEM	TABLE
20776	GONDJW	WAREHS_LOCAT	TABLE
15617	MESHACCT	AUDIO	TABLE
16887	MESHACCT	BODY_CNT	TABLE
16897	MESHACCT	BONUS	TABLE
15627	MESHACCT	CAIRS	TABLE
15672	MESHACCT	CANCER	TABLE
15817	MESHACCT	CAPSMAS	TABLE
16907	MESHACCT	CHEMEDIT	TABLE
16917	MESHACCT	CHEMMAST	TABLE
15682	MESHACCT	CONTAMIN	TABLE
16927	MESHACCT	DEPT	TABLE
16937	MESHACCT	DEPTEDIT	TABLE
15692	MESHACCT	DISEASES	TABLE
15702	MESHACCT	DOSHIST	TABLE
15712	MESHACCT	DOSIMETR	TABLE
15722	MESHACCT	DPTA	TABLE
16947	MESHACCT	DRIVER	TABLE
16957	MESHACCT	EMP	TABLE
16967	MESHACCT	EMP_HIST	TABLE
17077	MESHACCT	EZCONTROL	TABLE
15732	MESHACCT	FECAL	TABLE
15742	MESHACCT	FITNESS	TABLE
15752	MESHACCT	HADENOSE	TABLE
15762	MESHACCT	LAB	TABLE
15797	MESHACCT	MED	TABLE
15807	MESHACCT	MEDINTER	TABLE
15827	MESHACCT	MEDMAST	TABLE
15862	MESHACCT	MEHI	TABLE
15872	MESHACCT	MEN_ONLY	TABLE
16099	MESHACCT	MONITOR	TABLE
16109	MESHACCT	MONTHCUM	TABLE
16119	MESHACCT	MONTHPRT	TABLE
16977	MESHACCT	PEOPEDIT	TABLE
16129	MESHACCT	PHYSICAL	TABLE
16139	MESHACCT	PLACEDIT	TABLE
16149	MESHACCT	PLUTONM	TABLE
16159	MESHACCT	POLONIUM	TABLE
16169	MESHACCT	PR_EXPOSE	TABLE
16179	MESHACCT	PULMON	TABLE
17042	MESHACCT	QMX_INTERNAL_DATA	TABLE
16189	MESHACCT	RADIO	TABLE
16224	MESHACCT	RADIOIS	TABLE
16259	MESHACCT	RESPIRAT	TABLE
16269	MESHACCT	RESPIRATE	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
17032	MESHACCT	SALGRADE	TABLE
16279	MESHACCT	SAMPLING	TABLE
16289	MESHACCT	SECURITY	TABLE
16299	MESHACCT	TRAVEL	TABLE
16309	MESHACCT	TRITIUM	TABLE
16319	MESHACCT	TRITOXID	TABLE
16329	MESHACCT	VISION	TABLE
16339	MESHACCT	WEATHER	TABLE
16987	MESHACCT	WIPE	TABLE
17022	MESHACCT	WOMEN ONLY	TABLE
10357	OP\$ASARVB	EZCONTROL	TABLE
10337	OP\$ASARVB	GRADE	TABLE
10295	OP\$ASARVB	PURCHASE	VIEW
2081	OP\$BALLGL	ADDRESS2	TABLE
3746	OP\$BALLGL	CRTDBGEO	VIEW
5311	OP\$BALLGL	EZCONTROL	TABLE
5301	OP\$BALLGL	GEORGE01	TABLE
4484	OP\$BALLGL	SPEAKLIST	VIEW
4487	OP\$BALLGL	SPK01	VIEW
4490	OP\$BALLGL	SPK02	VIEW
2066	OP\$BALLGL	TEST1	VIEW
2072	OP\$BALLGL	TEST2	VIEW
5449	OP\$BALLGL	TESTVIEW	VIEW
1210	OP\$BARNBV	BARTRACK	TABLE
1245	OP\$BARNBV	EZCONTROL	TABLE
10367	OP\$BERGZG	EZCONTROL	TABLE
10317	OP\$BERGZG	GRADE	TABLE
10304	OP\$BERGZG	PURCHASE	VIEW
2226	OP\$BROWCE	CLIENT	TABLE
2236	OP\$BROWCE	LINEITEMS	TABLE
2246	OP\$BROWCE	ORDERS	TABLE
2256	OP\$BROWCE	PRICELIST	TABLE
2266	OP\$BROWCE	PRODUCT	TABLE
2286	OP\$BROWCE	SEQNOS	TABLE
2276	OP\$BROWCE	STATUSCODE	TABLE
16241	OP\$BRUNCD	CHEMINV	TABLE
22571	OP\$BRUNCD	COST	TABLE
1275	OP\$BRUNCD	EZCONTROL	TABLE
22746	OP\$BRUNCD	MANAGER	TABLE
1740	OP\$BRUNCD	OUTSTAND	TABLE
22546	OP\$BRUNCD	PLAY	TABLE
14386	OP\$BRUNCD	PURCHDESC	TABLE
15011	OP\$BRUNCD	PURCHITEM	TABLE
15286	OP\$BRUNCD	PURCHORDER	TABLE
14861	OP\$BRUNCD	PURCHREC	TABLE
1455	OP\$BRUNCD	QMX INTERNAL_DATA	TABLE
635	OP\$BRUNCD	TRAC21	TABLE
16736	OP\$BRUNCD	TRAC22	TABLE
1625	OP\$BRUNCD	TRAC23	TABLE
7651	OP\$BRUNCD	TRAC24	TABLE
7626	OP\$BRUNCD	TRAC27	TABLE
10071	OP\$BRUNCD	VARIANCE	TABLE
11461	OP\$BUNDRD	BIDRPT	TABLE
3824	OP\$BUNDRD	BLDGVIEW	VIEW
466	OP\$BUNDRD	BU_BID	TABLE
3832	OP\$BUNDRD	BU_BID_SENIORITY	VIEW
2296	OP\$BUNDRD	BU_BID_VIEW	VIEW
3116	OP\$BUNDRD	BU_EMP	TABLE
2391	OP\$BUNDRD	BU_JOB	TABLE
10121	OP\$BUNDRD	CCTABLE	TABLE
2771	OP\$BUNDRD	DEPT	TABLE
5298	OP\$BUNDRD	DEPTVIEW	VIEW
1580	OP\$BUNDRD	DUMMY	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
11451	OPSS\$BUNDRD	EMPRPT	TABLE
10171	OPSS\$BUNDRD	MD DEPTS	TABLE
6996	OPSS\$BUNDRD	MGRSPACE	VIEW
10146	OPSS\$BUNDRD	MGRTABLE	TABLE
2362	OPSS\$BUNDRD	MGRVIEW	VIEW
6701	OPSS\$BUNDRD	QMX INTERNAL_DATA	TABLE
10096	OPSS\$BUNDRD	SPACETBL	TABLE
3406	OPSS\$COLELL	ACCESS2	TABLE
1866	OPSS\$COLELL	ACCESS AUTH	TABLE
-4	OPSS\$COLELL	APPLICATION_ENTITIES	SYNONYM
-13	OPSS\$COLELL	APPLICATION_FUNCTIONS	SYNONYM
-9	OPSS\$COLELL	APPLICATION_TABLES	SYNONYM
20601	OPSS\$COLELL	AUTHORS	TABLE
1941	OPSS\$COLELL	CLASSIFIERS	TABLE
20916	OPSS\$COLELL	CLASS TABLE	TABLE
-7	OPSS\$COLELL	CODE CONTROLS	SYNONYM
21066	OPSS\$COLELL	CORPORATE_INFO	TABLE
2466	OPSS\$COLELL	CUST2	TABLE
9002	OPSS\$COLELL	CUSTINV	VIEW
2016	OPSS\$COLELL	CUSTODIAN REPS	TABLE
3251	OPSS\$COLELL	DATE CHECK	TABLE
1916	OPSS\$COLELL	DEPT TABLE	TABLE
9966	OPSS\$COLELL	DOCUMENT CONTROL	TABLE
20966	OPSS\$COLELL	DOC ABSTRACT	TABLE
22921	OPSS\$COLELL	DOC AUDIT	TABLE
20526	OPSS\$COLELL	DOC_CROSSREF	TABLE
20676	OPSS\$COLELL	DOC_CUSTODIAN	TABLE
20651	OPSS\$COLELL	DOC_INVENTORY	TABLE
22486	OPSS\$COLELL	DOC_PROFILE	TABLE
20626	OPSS\$COLELL	DOC_STATUS	TABLE
20991	OPSS\$COLELL	DOC_TITLE	TABLE
3381	OPSS\$COLELL	DOC TRANTYPE	TABLE
22461	OPSS\$COLELL	DRAFT STATUS	TABLE
-22	OPSS\$COLELL	DUMMY	SYNONYM
-14	OPSS\$COLELL	ENTITIES	SYNONYM
10347	OPSS\$COLELL	EZCONTROL	TABLE
10327	OPSS\$COLELL	GRADE	TABLE
20941	OPSS\$COLELL	MONTH TABLE	TABLE
10301	OPSS\$COLELL	PURCHASE	VIEW
1978	OPSS\$COLELL	QMX INTERNAL_DATA	TABLE
-14	OPSS\$COLELL	REC VT	SYNONYM
-6	OPSS\$COLELL	REF VALUES	SYNONYM
1791	OPSS\$COLELL	REPORT DESC	TABLE
-17	OPSS\$COLELL	SDD APPLICATION_DATASTORES	SYNONYM
-17	OPSS\$COLELL	SDD APPLICATION_MODULES	SYNONYM
-23	OPSS\$COLELL	SDD APPLICATION_SYSTEMS	SYNONYM
-12	OPSS\$COLELL	SDD_ARC_ENTRIES	SYNONYM
-15	OPSS\$COLELL	SDD_ATTRIBUTES	SYNONYM
-16	OPSS\$COLELL	SDD_ATTRIBUTE_VALUES	SYNONYM
-19	OPSS\$COLELL	SDD_CC_ATTRIBUTES	SYNONYM
-14	OPSS\$COLELL	SDD_CC_COLUMNS	SYNONYM
-19	OPSS\$COLELL	SDD_CHANGE_HISTORY	SYNONYM
-10	OPSS\$COLELL	SDD_COLUMNS	SYNONYM
-11	OPSS\$COLELL	SDD_COLUMN_ALIASES	SYNONYM
-14	OPSS\$COLELL	SDD_COMMON_RELATIONSHIPS	SYNONYM
-17	OPSS\$COLELL	SDD_DATAFLOWS	SYNONYM
-2	OPSS\$COLELL	SDD_DATASTORES	SYNONYM
-9	OPSS\$COLELL	SDD_DESCRIPTIONS	SYNONYM
-16	OPSS\$COLELL	SDD_DFLOW_ATT_USAGE	SYNONYM
-13	OPSS\$COLELL	SDD_DOMAINS	SYNONYM
-17	OPSS\$COLELL	SDD_DOM_COL_ATTS	SYNONYM
-1	OPSS\$COLELL	SDD_DSTORE_ATT_USAGE	SYNONYM
-20	OPSS\$COLELL	SDD_ENT_TREE	SYNONYM

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-17	OPSS\$COLELL	SDD_ERRORS	SYNONYM
-9	OPSS\$COLELL	SDD_EVENTS	SYNONYM
-11	OPSS\$COLELL	SDD_FILES	SYNONYM
-12	OPSS\$COLELL	SDD_FUNCTIONS	SYNONYM
-4	OPSS\$COLELL	SDD_FUNCTION MODULE IMPL	SYNONYM
-14	OPSS\$COLELL	SDD_FUNC ATTR_MATRIX	SYNONYM
-18	OPSS\$COLELL	SDD_INDEXES	SYNONYM
-24	OPSS\$COLELL	SDD_INDEX_ENTRIES	SYNONYM
-24	OPSS\$COLELL	SDD_MENU	SYNONYM
-2	OPSS\$COLELL	SDD_MODULES	SYNONYM
-24	OPSS\$COLELL	SDD_MOD COL_USAGE	SYNONYM
-8	OPSS\$COLELL	SDD_NOTES	SYNONYM
-22	OPSS\$COLELL	SDD_RELATIONSHIP ENDS	SYNONYM
-2	OPSS\$COLELL	SDD_RELATION SELECTIONS	SYNONYM
-16	OPSS\$COLELL	SDD_RELEASE NOTES	SYNONYM
-15	OPSS\$COLELL	SDD_RESERVED NAMES	SYNONYM
-8	OPSS\$COLELL	SDD_SELECT TEXT	SYNONYM
-2	OPSS\$COLELL	SDD_SPACE DEFINITIONS	SYNONYM
-21	OPSS\$COLELL	SDD_SYNONYMS	SYNONYM
-17	OPSS\$COLELL	SDD_TABLE MODULE_USAGE	SYNONYM
-15	OPSS\$COLELL	SDD_TAB DEFS	SYNONYM
-10	OPSS\$COLELL	SDD_TERMS	SYNONYM
-21	OPSS\$COLELL	SDD_TRIGGER REFS	SYNONYM
-3	OPSS\$COLELL	SDD_UNIQUE IDENTIFIER_ENTRIES	SYNONYM
-2	OPSS\$COLELL	SDD_VALIDATION_RULES	SYNONYM
-1	OPSS\$COLELL	SDD_VRELEND	SYNONYM
-18	OPSS\$COLELL	SDD_WEIGHTING FACTORS	SYNONYM
-1	OPSS\$COLELL	SDD_WHERE CONDITIONS	SYNONYM
-25	OPSS\$COLELL	TAB_ENTS	SYNONYM
-24	OPSS\$COLELL	USAGE	SYNONYM
3481	OPSS\$COLELL	WORKFILE	TABLE
3456	OPSS\$COLELL	WORKFILE2	TABLE
1	OPSS\$EIMUEC	ADMATDEV	TABLE
10646	OPSS\$EIMUEC	AOSMESSGS	TABLE
2069	OPSS\$EIMUEC	AOS SURVEY	VIEW
16096	OPSS\$EIMUEC	APPFUNC	VIEW
13143	OPSS\$EIMUEC	APPLICATION ENTITIES	TABLE
13153	OPSS\$EIMUEC	APPLICATION_FUNCTIONS	TABLE
13252	OPSS\$EIMUEC	APPLICATION_TABLES	TABLE
4261	OPSS\$EIMUEC	BONUS	TABLE
13272	OPSS\$EIMUEC	CODE CONTROLS	TABLE
501	OPSS\$EIMUEC	CRTDB	TABLE
-12	OPSS\$EIMUEC	DD	SYNONYM
1380	OPSS\$EIMUEC	DEPT	TABLE
20451	OPSS\$EIMUEC	DOCDB	TABLE
-6	OPSS\$EIMUEC	DOC_ABSTRACT	SYNONYM
-25	OPSS\$EIMUEC	DOC_CROSSREF	SYNONYM
-17	OPSS\$EIMUEC	DOC_CUSTODIAN	SYNONYM
-3	OPSS\$EIMUEC	DOC_INVENTORY	SYNONYM
-21	OPSS\$EIMUEC	DOC_TITLE	SYNONYM
-16	OPSS\$EIMUEC	DOC_TRANSType	SYNONYM
-24	OPSS\$EIMUEC	DRAFT STATUS	SYNONYM
13292	OPSS\$EIMUEC	DUMMY	TABLE
2061	OPSS\$EIMUEC	EMP	TABLE
-15	OPSS\$EIMUEC	EMPLOYEE	SYNONYM
-9	OPSS\$EIMUEC	EMPLOYEE	SYNONYM
13302	OPSS\$EIMUEC	ENTITIES	TABLE
2546	OPSS\$EIMUEC	EPPELY	TABLE
1988	OPSS\$EIMUEC	EZCONTROL	TABLE
5061	OPSS\$EIMUEC	HUGHES	TABLE
3556	OPSS\$EIMUEC	MANUALS	TABLE
-21	OPSS\$EIMUEC	MONTH TABLE	SYNONYM
10046	OPSS\$EIMUEC	NEWINV	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
1470	OPSS\$EIMUEC	NEWVIEW	VIEW
21551	OPSS\$EIMUEC	NEW_T	TABLE
21526	OPSS\$EIMUEC	OLD_T	TABLE
7776	OPSS\$EIMUEC	OPERATIONS	TABLE
1940	OPSS\$EIMUEC	PILOT	VIEW
10671	OPSS\$EIMUEC	PROCUTIL	TABLE
4006	OPSS\$EIMUEC	PROJEX	TABLE
-4	OPSS\$EIMUEC	PUR_ITEMS	SYNONYM
5288	OPSS\$EIMUEC	QMX_INTERNAL_DATA	TABLE
13332	OPSS\$EIMUEC	REF_VALUES	TABLE
9916	OPSS\$EIMUEC	SCR_LDS	TABLE
6861	OPSS\$EIMUEC	SDD_ALT_KEY_ENTRIES	TABLE
7726	OPSS\$EIMUEC	SDD_APPLICATION_DATASTORES	TABLE
7776	OPSS\$EIMUEC	SDD_APPLICATION_MODULES	TABLE
13242	OPSS\$EIMUEC	SDD_APPLICATION_SYSTEMS	TABLE
13262	OPSS\$EIMUEC	SDD_ARC_ENTRIES	TABLE
13377	OPSS\$EIMUEC	SDD_ATTRIBUTES	TABLE
13387	OPSS\$EIMUEC	SDD_ATTRIBUTE_VALUES	TABLE
13397	OPSS\$EIMUEC	SDD_CC_ATTRIBUTES	TABLE
13617	OPSS\$EIMUEC	SDD_CC_COLUMNS	TABLE
7806	OPSS\$EIMUEC	SDD_CHANGE_HISTORY	TABLE
13407	OPSS\$EIMUEC	SDD_COLUMNS	TABLE
7736	OPSS\$EIMUEC	SDD_COLUMN_ALIASES	TABLE
13702	OPSS\$EIMUEC	SDD_COMMON_RELATIONSHIPS	VIEW
13637	OPSS\$EIMUEC	SDD_DATAFLOWS	TABLE
13692	OPSS\$EIMUEC	SDD_DATASTORES	TABLE
13282	OPSS\$EIMUEC	SDD_DESCRIPTIONS	TABLE
13647	OPSS\$EIMUEC	SDD_DFLOW_ATT_USAGE	TABLE
13417	OPSS\$EIMUEC	SDD_DOMAINS	TABLE
13427	OPSS\$EIMUEC	SDD_DOM_COL_ATTS	TABLE
7716	OPSS\$EIMUEC	SDD_DSTORE_ATT_USAGE	TABLE
13437	OPSS\$EIMUEC	SDD_ENT_TREE	TABLE
13447	OPSS\$EIMUEC	SDD_ERRORS	TABLE
13457	OPSS\$EIMUEC	SDD_EVENTS	TABLE
7796	OPSS\$EIMUEC	SDD_FILES	TABLE
13312	OPSS\$EIMUEC	SDD_FUNCTIONS	TABLE
13467	OPSS\$EIMUEC	SDD_FUNCTION_MODULE_IMPL	TABLE
13657	OPSS\$EIMUEC	SDD_FUNC_ATTR_MATRIX	TABLE
13477	OPSS\$EIMUEC	SDD_INDEXES	TABLE
13487	OPSS\$EIMUEC	SDD_INDEX_ENTRIES	TABLE
7826	OPSS\$EIMUEC	SDD_MENU	TABLE
13497	OPSS\$EIMUEC	SDD_MODULES	TABLE
7786	OPSS\$EIMUEC	SDD_MOD_COL_USAGE	TABLE
13322	OPSS\$EIMUEC	SDD_NOTES	TABLE
13367	OPSS\$EIMUEC	SDD_RELATIONSHIP_ENDS	TABLE
7756	OPSS\$EIMUEC	SDD_RELATION_SELECTIONS	TABLE
7816	OPSS\$EIMUEC	SDD_RELEASE_NOTES	TABLE
7766	OPSS\$EIMUEC	SDD_RESERVED_NAMES	TABLE
10124	OPSS\$EIMUEC	SDD_ROW_IDENTIFIERS	TABLE
7746	OPSS\$EIMUEC	SDD_SELECT_TEXT	TABLE
13607	OPSS\$EIMUEC	SDD_SPACE_DEFINITIONS	TABLE
13567	OPSS\$EIMUEC	SDD_SYNONYMS	TABLE
13507	OPSS\$EIMUEC	SDD_TABLE_MODULE_USAGE	TABLE
13577	OPSS\$EIMUEC	SDD_TAB_DEFS	TABLE
13627	OPSS\$EIMUEC	SDD_TERMS	TABLE
13517	OPSS\$EIMUEC	SDD_TRIGGER_REFS	TABLE
13527	OPSS\$EIMUEC	SDD_UNIQUE_IDENTIFIER_ENTRIES	TABLE
13537	OPSS\$EIMUEC	SDD_VALIDATION_RULES	TABLE
13158	OPSS\$EIMUEC	SDD_VRELEND	VIEW
13547	OPSS\$EIMUEC	SDD_WEIGHTING_FACTORS	TABLE
13557	OPSS\$EIMUEC	SDD_WHERE_CONDITIONS	TABLE
2901	OPSS\$EIMUEC	SURVEY	TABLE
17112	OPSS\$EIMUEC	TABLES	VIEW

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
13587	OPSS\$EIMUEC	TAB_ENTS	TABLE
6092	OPSS\$EIMUEC	TEMP_COUNT	VIEW
2559	OPSS\$EIMUEC	TEMP_ROW	VIEW
2556	OPSS\$EIMUEC	TEMP_TT1	VIEW
20426	OPSS\$EIMUEC	TEST	TABLE
326	OPSS\$EIMUEC	TIMESHEET	TABLE
7751	OPSS\$EIMUEC	TIPS	TABLE
396	OPSS\$EIMUEC	TIP\$X	TABLE
9941	OPSS\$EIMUEC	TX\$	TABLE
10844	OPSS\$EIMUEC	UNIWRK	TABLE
13597	OPSS\$EIMUEC	USAGE	TABLE
-15	OPSS\$EIMUEC	VDTABLE	SYNONYM
4206	OPSS\$EIMUEC	XPCPRDMST	TABLE
7601	OPSS\$EIMUEC	XTRAC21	TABLE
526	OPSS\$EIMUEC	XTRAC22	TABLE
1611	OPSS\$EIMUEC	XTRAC23	TABLE
15906	OPSS\$EPPLRE	CLIENT	TABLE
10374	OPSS\$EPPLRE	CUSTMA\$T	TABLE
15896	OPSS\$EPPLRE	CUSTOMERS	TABLE
13756	OPSS\$EPPLRE	DATES	TABLE
6871	OPSS\$EPPLRE	EZCONTROL	TABLE
15916	OPSS\$EPPLRE	LINEITEMS	TABLE
5945	OPSS\$EPPLRE	LINE ITEMS	TABLE
10384	OPSS\$EPPLRE	ORDERS	TABLE
5168	OPSS\$EPPLRE	ORDLOG	TABLE
7201	OPSS\$EPPLRE	PRICELIST	TABLE
13766	OPSS\$EPPLRE	PRICES	TABLE
9731	OPSS\$EPPLRE	PRODCAT	TABLE
10394	OPSS\$EPPLRE	PRODITEMS	TABLE
7211	OPSS\$EPPLRE	PRODUCT	TABLE
15886	OPSS\$EPPLRE	SALES	TABLE
7231	OPSS\$EPPLRE	SEQNOS	TABLE
7221	OPSS\$EPPLRE	STATUSCODE	TABLE
-2	OPSS\$HOWENC	EMP	SYNONYM
1968	OPSS\$HOWENC	EZCONTROL	TABLE
1590	OPSS\$HOWENC	NANCY	TABLE
2786	OPSS\$HOWENC	NEW	TABLE
8861	OPSS\$HOWENC	PHONE	TABLE
7196	OPSS\$HOWENC	TEST2	TABLE
14181	OPSS\$HOWENC	TESTDATA	TABLE
10766	OPSS\$HUNGSA	CC_OTHER_DISPS	TABLE
21331	OPSS\$HUNGSA	CC_REJECTS	TABLE
8876	OPSS\$HUNGSA	COMMTBL	TABLE
1741	OPSS\$HUNGSA	COST CENTERS	TABLE
10956	OPSS\$HUNGSA	CUSTOMERS	TABLE
2526	OPSS\$HUNGSA	DATA TYPES	TABLE
20801	OPSS\$HUNGSA	DISP_CODES	TABLE
9006	OPSS\$HUNGSA	EXT_MANF_PROD	TABLE
2056	OPSS\$HUNGSA	FIELD_ID_SPECS	TABLE
3981	OPSS\$HUNGSA	GEISHA_FIELD_IDS	TABLE
3956	OPSS\$HUNGSA	GEISHA_TEST_CODES	TABLE
15711	OPSS\$HUNGSA	GROUPS	TABLE
9026	OPSS\$HUNGSA	INSPECTION_CODES	TABLE
15736	OPSS\$HUNGSA	ITEM_INFO	TABLE
7051	OPSS\$HUNGSA	LEVEL1_ROA	VIEW
7054	OPSS\$HUNGSA	LEVEL2_ROA	VIEW
7095	OPSS\$HUNGSA	LEVEL3_ROA	VIEW
10806	OPSS\$HUNGSA	LOTS	TABLE
10746	OPSS\$HUNGSA	MEASUREMENTS	TABLE
10831	OPSS\$HUNGSA	OPERATIONS	TABLE
10881	OPSS\$HUNGSA	OPERATORS	TABLE
8886	OPSS\$HUNGSA	OPERTBL	TABLE
8826	OPSS\$HUNGSA	OPNMTBL	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
8836	OPSSHUNGSA	PRODTBL	TABLE
10786	OPSSHUNGSA	PRODUCTS	TABLE
10906	OPSSHUNGSA	QC NUMBERS	TABLE
8846	OPSSHUNGSA	RAY	TABLE
21141	OPSSHUNGSA	REJECTS	TABLE
8976	OPSSHUNGSA	REJECT_CODES	TABLE
15761	OPSSHUNGSA	REJECT_OTHER_CODES	TABLE
10931	OPSSHUNGSA	REQUESTORS	TABLE
1761	OPSSHUNGSA	REWORKS	TABLE
21041	OPSSHUNGSA	REWORK_CODES	TABLE
7041	OPSSHUNGSA	ROA	TABLE
21406	OPSSHUNGSA	SOURCE_CODES	TABLE
20701	OPSSHUNGSA	SPTABLE	TABLE
9686	OPSSHUNGSA	STATTL	TABLE
10856	OPSSHUNGSA	SUB_LOTS	TABLE
3531	OPSSHUNGSA	TEST_CODE_SPECS	TABLE
3506	OPSSHUNGSA	TEST_SPECS	TABLE
10981	OPSSHUNGSA	TIPS	TABLE
11006	OPSSHUNGSA	TIPS_TEMP	TABLE
9696	OPSSHUNGSA	TRAVTL	TABLE
3827	OPSSHUNGSA	VDTABLE	TABLE
7098	OPSSHUNGSA	VIEW_ROA	VIEW
1460	OPSSJONESK	EZCONTROL	TABLE
-20	OPSSJONESK	SURVEY	SYNONYM
3076	OPSSLANGJA	AUDIO	TABLE
3096	OPSSLANGJA	BODY_CNT	TABLE
5253	OPSSLANGJA	BONUS	TABLE
3181	OPSSLANGJA	CAIRS	TABLE
21246	OPSSLANGJA	CANCER	TABLE
3931	OPSSLANGJA	CAPSMAS	TABLE
16141	OPSSLANGJA	CHEMEDIT	TABLE
6936	OPSSLANGJA	CHEMMAS	TABLE
19911	OPSSLANGJA	CONTAMIN	TABLE
2696	OPSSLANGJA	DEPT	TABLE
1900	OPSSLANGJA	DEPTEDIT	TABLE
22671	OPSSLANGJA	DISEASES	TABLE
2791	OPSSLANGJA	DOSHIST	TABLE
2541	OPSSLANGJA	DOSIMETR	TABLE
19861	OPSSLANGJA	DPTA	TABLE
20401	OPSSLANGJA	DRIVER	TABLE
4558	OPSSLANGJA	DUMMY	TABLE
5283	OPSSLANGJA	EMP	TABLE
2666	OPSSLANGJA	EMP_HIST	TABLE
6981	OPSSLANGJA	EZCONTROL	TABLE
2766	OPSSLANGJA	FECAL	TABLE
20211	OPSSLANGJA	FITNESS	TABLE
2441	OPSSLANGJA	HADENOSE	TABLE
21091	OPSSLANGJA	LAB	TABLE
19961	OPSSLANGJA	MED	TABLE
21221	OPSSLANGJA	MEDINTER	TABLE
22696	OPSSLANGJA	MEDMAS	TABLE
2926	OPSSLANGJA	MEHI	TABLE
22646	OPSSLANGJA	MEN_ONLY	TABLE
2146	OPSSLANGJA	MONITOR	TABLE
3051	OPSSLANGJA	MONTHCUM	TABLE
3001	OPSSLANGJA	MONTHPRT	TABLE
18686	OPSSLANGJA	PEOPEDIT	TABLE
21196	OPSSLANGJA	PHYSICAL	TABLE
16216	OPSSLANGJA	PLACEDIT	TABLE
2616	OPSSLANGJA	PLUTONM	TABLE
2691	OPSSLANGJA	POLONIUM	TABLE
2716	OPSSLANGJA	PR_EXPOSE	TABLE
21171	OPSSLANGJA	PULMON	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
6971	OP\$LANGJA	QMX_INTERNAL_DATA	TABLE
21116	OP\$LANGJA	RADIO	TABLE
19886	OP\$LANGJA	RADIOIS	TABLE
2876	OP\$LANGJA	RESPIRAT	TABLE
19986	OP\$LANGJA	RESPIRATE	TABLE
4548	OP\$LANGJA	SALGRADE	TABLE
2976	OP\$LANGJA	SAMPLING	TABLE
20476	OP\$LANGJA	SECURITY	TABLE
2741	OP\$LANGJA	TRAVEL	TABLE
2591	OP\$LANGJA	TRITIUM	TABLE
2951	OP\$LANGJA	TRITOXID	TABLE
20501	OP\$LANGJA	VISION	TABLE
3026	OP\$LANGJA	WEATHER	TABLE
276	OP\$LANGJA	WIPE	TABLE
22621	OP\$LANGJA	WOMEN_ONLY	TABLE
2562	OP\$MAXFAD	ANN	VIEW
11320	OP\$MAXFAD	BONUS	TABLE
11310	OP\$MAXFAD	DEPT	TABLE
6082	OP\$MAXFAD	DUMMY	TABLE
10194	OP\$MAXFAD	DUNN	TABLE
7873	OP\$MAXFAD	EMP	TABLE
8992	OP\$MAXFAD	EZCONTROL	TABLE
10204	OP\$MAXFAD	MAX	TABLE
5243	OP\$MAXFAD	PURCHASE	VIEW
9744	OP\$MAXFAD	SALGRADE	TABLE
1420	OP\$MILLGD	EZCONTROL	TABLE
5452	OP\$MILLGD	ROSTER	TABLE
7581	OP\$MUSEDL	EZCONTROL	TABLE
10249	OP\$MUSEDL	VAULTS	TABLE
17140	OP\$OCONMJ	DEPT1	TABLE
1635	OP\$QUILL	CENACC	TABLE
6230	OP\$QUILL	OP0935FX	TABLE
6250	OP\$QUILL	OP1075FX	TABLE
3726	OP\$REEDRD	BILLY	TABLE
3736	OP\$REEDRD	EZCONTROL	TABLE
10298	OP\$SHEPDJ	PURCHASE	VIEW
10434	OP\$SPENMA	EZCONTROL	TABLE
10307	OP\$SPENMA	GRADE	TABLE
10289	OP\$SPENMA	PURCHASE	VIEW
10292	OP\$STANMJ	PURCHASE	VIEW
2797	OP\$ZORIDA	EMPLOYEE79	VIEW
6240	OP\$ZORIDA	PHONE	VIEW
10834	PRODUCTION	BU_BID	TABLE
2309	PRODUCTION	BU_BID_SENIORITY	VIEW
15526	PRODUCTION	BU_BID_VIEW	VIEW
11169	PRODUCTION	BU_EMP	TABLE
7861	PRODUCTION	BU_JOB	TABLE
1355	PRODUCTION	PCBLDBOM	TABLE
1365	PRODUCTION	PCBLDMST	TABLE
7026	PRODUCTION	PCPRDMST	TABLE
7036	PRODUCTION	PCSCHDOP	TABLE
10624	PRODUCTION	PCWORKOP	TABLE
8986	PRODUCTION	PROJECT	TABLE
8901	PRODUCTION	SEQNOS	TABLE
-11	PUBLIC	ACCESS_AUTH	SYNONYM
-8	PUBLIC	ADMATDEV	SYNONYM
-4	PUBLIC	APPLICATION_ENTITIES	SYNONYM
-13	PUBLIC	APPLICATION_FUNCTIONS	SYNONYM
-9	PUBLIC	APPLICATION_TABLES	SYNONYM
-5	PUBLIC	AUDIT_ACCESS	SYNONYM
-25	PUBLIC	AUDIT_ACTIONS	SYNONYM
-18	PUBLIC	AUDIT_CONNECT	SYNONYM
-20	PUBLIC	AUDIT_DBA	SYNONYM

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-1	PUBLIC	AUDIT_EXISTS	SYNONYM
-1	PUBLIC	AUDIT_TRAIL	SYNONYM
-1	PUBLIC	AUTHORS	SYNONYM
-12	PUBLIC	BIGEMP	SYNONYM
-22	PUBLIC	BORDER	SYNONYM
-19	PUBLIC	BUDGET	SYNONYM
-4	PUBLIC	BU_BID	SYNONYM
-9	PUBLIC	BU_BID_SENIORITY	SYNONYM
-14	PUBLIC	BU_BID_VIEW	SYNONYM
-23	PUBLIC	BU_EMP	SYNONYM
-16	PUBLIC	BU_JOB	SYNONYM
-8	PUBLIC	CATALOG	SYNONYM
-20	PUBLIC	CCTABLE	SYNONYM
-25	PUBLIC	CLASSIFIERS	SYNONYM
-5	PUBLIC	CLASS TABLE	SYNONYM
-17	PUBLIC	CLUSTERCOLUMNS	SYNONYM
-5	PUBLIC	CLUSTERS	SYNONYM
-7	PUBLIC	CODE_CONTROLS	SYNONYM
-23	PUBLIC	COL	SYNONYM
-21	PUBLIC	COLUMNS	SYNONYM
-8	PUBLIC	CORPORATE_AUTHORS	SYNONYM
-8	PUBLIC	CORPORATE_INFO	SYNONYM
-18	PUBLIC	CRTDB	SYNONYM
-17	PUBLIC	CUSTODIAN_REPS	SYNONYM
-25	PUBLIC	DATADICT	SYNONYM
-7	PUBLIC	DATE CHECK	SYNONYM
-13	PUBLIC	DEFAULT_AUDIT	SYNONYM
-2	PUBLIC	DEPT	SYNONYM
-7	PUBLIC	DEPT TABLE	SYNONYM
-9	PUBLIC	DICTIONARY	SYNONYM
-6	PUBLIC	DOC_ABSTRACT	SYNONYM
-25	PUBLIC	DOC_CROSSREF	SYNONYM
-17	PUBLIC	DOC_CUSTODIAN	SYNONYM
-3	PUBLIC	DOC_INVENTORY	SYNONYM
-14	PUBLIC	DOC_PROFILE	SYNONYM
-19	PUBLIC	DOC_STATUS	SYNONYM
-21	PUBLIC	DOC_TITLE	SYNONYM
-16	PUBLIC	DOC_TRANTYPE	SYNONYM
-24	PUBLIC	DRAFT_STATUS	SYNONYM
-9	PUBLIC	DTAB	SYNONYM
-20	PUBLIC	DUAL	SYNONYM
-22	PUBLIC	DUMMY	SYNONYM
-2	PUBLIC	EMP	SYNONYM
-15	PUBLIC	EMPLOYEE	SYNONYM
-9	PUBLIC	EMPLOYEE	SYNONYM
-14	PUBLIC	ENTITIES	SYNONYM
-6	PUBLIC	EXTENTS	SYNONYM
-18	PUBLIC	EZ\$COL	SYNONYM
-8	PUBLIC	HELPTABLE	SYNONYM
-19	PUBLIC	IAPAPP	SYNONYM
-11	PUBLIC	IAPBLK	SYNONYM
-25	PUBLIC	IAPCOMMENT	SYNONYM
-8	PUBLIC	IAPFLD	SYNONYM
-16	PUBLIC	IAPMAP	SYNONYM
-15	PUBLIC	IAPSQLTXT	SYNONYM
-6	PUBLIC	IAPTRG	SYNONYM
-1	PUBLIC	IAPTRIGGER	SYNONYM
-4	PUBLIC	INDEXES	SYNONYM
-24	PUBLIC	INVENTION	SYNONYM
-5	PUBLIC	MANUALS	SYNONYM
-25	PUBLIC	MENU APPLICATION	SYNONYM
-8	PUBLIC	MENU_COMMAND_TYPE	SYNONYM
-2	PUBLIC	MENU_HELP	SYNONYM

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-5	PUBLIC	MENU_INFO	SYNONYM
-22	PUBLIC	MENU_MESSAGE	SYNONYM
-3	PUBLIC	MENU_OPTION	SYNONYM
-24	PUBLIC	MENU_PARAM	SYNONYM
-3	PUBLIC	MENU_PARAM_XREF	SYNONYM
-24	PUBLIC	MENU_USER	SYNONYM
-22	PUBLIC	MENU_WORK_CLASS	SYNONYM
-16	PUBLIC	MGRTABLE	SYNONYM
-21	PUBLIC	MONTH TABLE	SYNONYM
-8	PUBLIC	NATION	SYNONYM
-22	PUBLIC	NEWINV	SYNONYM
-7	PUBLIC	PARTITIONS	SYNONYM
-5	PUBLIC	PCBLDBOM	SYNONYM
-2	PUBLIC	PCBLDMST	SYNONYM
-22	PUBLIC	PCPRDMST	SYNONYM
-22	PUBLIC	PCSCHDOP	SYNONYM
-5	PUBLIC	PCWORKOP	SYNONYM
-18	PUBLIC	PILOT	SYNONYM
-15	PUBLIC	PRIVATESYN	SYNONYM
-11	PUBLIC	PROJECT	SYNONYM
-19	PUBLIC	PROJECTS	SYNONYM
-12	PUBLIC	PRO_COMM	SYNONYM
-22	PUBLIC	PRO_OPER	SYNONYM
-17	PUBLIC	PRO_OPERNAM	SYNONYM
-16	PUBLIC	PRO_PRODNAME	SYNONYM
-3	PUBLIC	PRO_STAT	SYNONYM
-4	PUBLIC	PRO_TRAV	SYNONYM
-23	PUBLIC	PUBLICSYN	SYNONYM
-8	PUBLIC	PURIDESC	SYNONYM
-1	PUBLIC	PURITEM	SYNONYM
-3	PUBLIC	PURORDER	SYNONYM
-2	PUBLIC	PURRECV	SYNONYM
-11	PUBLIC	PURRECVT	SYNONYM
-6	PUBLIC	REF_VALUES	SYNONYM
-9	PUBLIC	REPORT_DESC	SYNONYM
-5	PUBLIC	SALGRADE	SYNONYM
-17	PUBLIC	SDD_APPLICATION_DATASTORES	SYNONYM
-17	PUBLIC	SDD_APPLICATION_MODULES	SYNONYM
-23	PUBLIC	SDD_APPLICATION_SYSTEMS	SYNONYM
-12	PUBLIC	SDD_ARC_ENTRIES	SYNONYM
-15	PUBLIC	SDD_ATTRIBUTES	SYNONYM
-16	PUBLIC	SDD_ATTRIBUTE_VALUES	SYNONYM
-19	PUBLIC	SDD_CC_ATTRIBUTES	SYNONYM
-14	PUBLIC	SDD_CC_COLUMNS	SYNONYM
-19	PUBLIC	SDD_CHANGE_HISTORY	SYNONYM
-10	PUBLIC	SDD_COLUMNS	SYNONYM
-11	PUBLIC	SDD_COLUMN_ALIASES	SYNONYM
-14	PUBLIC	SDD_COMMON_RELATIONSHIPS	SYNONYM
-17	PUBLIC	SDD_DATAFLOWS	SYNONYM
-2	PUBLIC	SDD_DATASTORES	SYNONYM
-9	PUBLIC	SDD_DESCRIPTIONS	SYNONYM
-16	PUBLIC	SDD_DFLOW_ATT_USAGE	SYNONYM
-13	PUBLIC	SDD_DOMAINS	SYNONYM
-17	PUBLIC	SDD_DOM_COL_ATTS	SYNONYM
-1	PUBLIC	SDD_DSTORE_ATT_USAGE	SYNONYM
-20	PUBLIC	SDD_ENT_TREE	SYNONYM
-17	PUBLIC	SDD_ERRORS	SYNONYM
-9	PUBLIC	SDD_EVENTS	SYNONYM
-11	PUBLIC	SDD_FILES	SYNONYM
-12	PUBLIC	SDD_FUNCTIONS	SYNONYM
-4	PUBLIC	SDD_FUNCTION_MODULE_IMPL	SYNONYM
-14	PUBLIC	SDD_FUNC_ATTR_MATRIX	SYNONYM
-18	PUBLIC	SDD_INDEXES	SYNONYM

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
-24	PUBLIC	SDD_INDEX_ENTRIES	SYNONYM
-24	PUBLIC	SDD_MENU	SYNONYM
-2	PUBLIC	SDD_MODULES	SYNONYM
-24	PUBLIC	SDD_MOD COL_USAGE	SYNONYM
-8	PUBLIC	SDD_NOTES	SYNONYM
-22	PUBLIC	SDD_RELATIONSHIP_ENDS	SYNONYM
-2	PUBLIC	SDD_RELATION SELECTIONS	SYNONYM
-16	PUBLIC	SDD_RELEASE NOTES	SYNONYM
-15	PUBLIC	SDD_RESERVED NAMES	SYNONYM
-8	PUBLIC	SDD_SELECT TEXT	SYNONYM
-2	PUBLIC	SDD_SPACE DEFINITIONS	SYNONYM
-21	PUBLIC	SDD_SYNONYMS	SYNONYM
-17	PUBLIC	SDD_TABLE MODULE_USAGE	SYNONYM
-15	PUBLIC	SDD_TAB DEFS	SYNONYM
-10	PUBLIC	SDD_TERMS	SYNONYM
-21	PUBLIC	SDD_TRIGGER REFS	SYNONYM
-3	PUBLIC	SDD_UNIQUE IDENTIFIER_ENTRIES	SYNONYM
-2	PUBLIC	SDD_VALIDATION RULES	SYNONYM
-1	PUBLIC	SDD_VRELEND	SYNONYM
-18	PUBLIC	SDD_WEIGHTING FACTORS	SYNONYM
-1	PUBLIC	SDD_WHERE CONDITIONS	SYNONYM
-24	PUBLIC	SEQNOS	SYNONYM
-7	PUBLIC	SESSIONS	SYNONYM
-23	PUBLIC	SPACES	SYNONYM
-16	PUBLIC	SPACETBL	SYNONYM
-9	PUBLIC	STORAGE	SYNONYM
-7	PUBLIC	SYNONYMS	SYNONYM
-6	PUBLIC	SYSAUDIT TRAIL	SYNONYM
-13	PUBLIC	SYSCATALOG	SYNONYM
-9	PUBLIC	SYSCOLAUTH	SYNONYM
-1	PUBLIC	SYSCOLUMNS	SYNONYM
-11	PUBLIC	SYSEXTENTS	SYNONYM
-9	PUBLIC	SYSINDEXES	SYNONYM
-1	PUBLIC	SYSPROGS	SYNONYM
-14	PUBLIC	SYSSTORAGE	SYNONYM
-9	PUBLIC	SYSTABALLOC	SYNONYM
-2	PUBLIC	SYSTABAUTH	SYNONYM
-6	PUBLIC	SYSTEM AUDIT	SYNONYM
-6	PUBLIC	SYSUSERAUTH	SYNONYM
-16	PUBLIC	SYSUSERLIST	SYNONYM
-4	PUBLIC	SYSVIEWS	SYNONYM
-16	PUBLIC	TAB	SYNONYM
-4	PUBLIC	TABALLOC	SYNONYM
-19	PUBLIC	TABLES	SYNONYM
-6	PUBLIC	TABLE AUDIT	SYNONYM
-18	PUBLIC	TABQUOTAS	SYNONYM
-25	PUBLIC	TAB ENTS	SYNONYM
-5	PUBLIC	TIMEHOURS	SYNONYM
-14	PUBLIC	TIMESHEETS	SYNONYM
-12	PUBLIC	TITLE ABSTR	SYNONYM
-23	PUBLIC	TRAC21	SYNONYM
-24	PUBLIC	USAGE	SYNONYM
-24	PUBLIC	VIEWS	SYNONYM
-11	PUBLIC	XTRAC21	SYNONYM
-12	PUBLIC	XTRAC22	SYNONYM
-13	PUBLIC	XTRAC23	SYNONYM
14461	SCOTT	APPFUNC	VIEW
14480	SCOTT	APPLICATION_ENTITIES	TABLE
14490	SCOTT	APPLICATION_FUNCTIONS	TABLE
14525	SCOTT	APPLICATION_TABLES	TABLE
4918	SCOTT	BONUS	TABLE
7101	SCOTT	CLIENT	TABLE
14535	SCOTT	CODE_CONTROLS	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
4908	SCOTT	DEPT	TABLE
14545	SCOTT	DUMMY	TABLE
4898	SCOTT	EMP	TABLE
14555	SCOTT	ENTITIES	TABLE
1311	SCOTT	EZCONTROL	TABLE
7111	SCOTT	LINEITEMS	TABLE
14470	SCOTT	LINE ITEMS	TABLE
7121	SCOTT	ORDERS	TABLE
7131	SCOTT	PRICELIST	TABLE
7141	SCOTT	PRODUCT	TABLE
7057	SCOTT	PROJECT	TABLE
6991	SCOTT	QMX_INTERNAL_DATA	TABLE
14590	SCOTT	REF_VALUES	TABLE
15517	SCOTT	ROSTER	VIEW
4928	SCOTT	SALGRADE	TABLE
6097	SCOTT	SDD_ALT_KEY_ENTRIES	TABLE
14600	SCOTT	SDD_APPLICATION_DATASTORES	TABLE
14610	SCOTT	SDD_APPLICATION_MODULES	TABLE
14620	SCOTT	SDD_APPLICATION_SYSTEMS	TABLE
14630	SCOTT	SDD_ARC_ENTRIES	TABLE
14640	SCOTT	SDD_ATTRIBUTES	TABLE
14675	SCOTT	SDD_ATTRIBUTE_VALUES	TABLE
14685	SCOTT	SDD_CC_ATTRIBUTES	TABLE
14720	SCOTT	SDD_CC_COLUMNS	TABLE
14755	SCOTT	SDD_CHANGE_HISTORY	TABLE
14765	SCOTT	SDD_COLUMNS	TABLE
14825	SCOTT	SDD_COLUMN_ALIASES	TABLE
15523	SCOTT	SDD_COMMON_RELATIONSHIPS	VIEW
14835	SCOTT	SDD_DATAFLOWS	TABLE
14870	SCOTT	SDD_DATASTORES	TABLE
14880	SCOTT	SDD_DESCRIPTIONS	TABLE
14915	SCOTT	SDD_DFLOW_ATT_USAGE	TABLE
14937	SCOTT	SDD_DOMAINS	TABLE
14947	SCOTT	SDD_DOM_COL_ATTS	TABLE
14957	SCOTT	SDD_DSTORE_ATT_USAGE	TABLE
14967	SCOTT	SDD_ENT_TREE	TABLE
14977	SCOTT	SDD_ERRORS	TABLE
15012	SCOTT	SDD_EVENTS	TABLE
15022	SCOTT	SDD_FILES	TABLE
15032	SCOTT	SDD_FUNCTIONS	TABLE
15067	SCOTT	SDD_FUNCTION_MODULE_IMPL	TABLE
15077	SCOTT	SDD_FUNC_ATTR_MATRIX	TABLE
15112	SCOTT	SDD_INDEXES	TABLE
15122	SCOTT	SDD_INDEX_ENTRIES	TABLE
15132	SCOTT	SDD_MENU	TABLE
15142	SCOTT	SDD_MODULES	TABLE
15177	SCOTT	SDD_MOD_COL_USAGE	TABLE
15212	SCOTT	SDD_NOTES	TABLE
15222	SCOTT	SDD_RELATIONSHIP_ENDS	TABLE
15257	SCOTT	SDD_RELATION_SELECTIONS	TABLE
15267	SCOTT	SDD_RELEASE_NOTES	TABLE
15277	SCOTT	SDD_RESERVED_NAMES	TABLE
14196	SCOTT	SDD_ROW_IDENTIFIERS	TABLE
15287	SCOTT	SDD_SELECT_TEXT	TABLE
15297	SCOTT	SDD_SPACE_DEFINITIONS	TABLE
15307	SCOTT	SDD_SYNONYMS	TABLE
15367	SCOTT	SDD_TABLE_MODULE_USAGE	TABLE
15377	SCOTT	SDD_TAB_DEFS	TABLE
15412	SCOTT	SDD_TERMS	TABLE
15422	SCOTT	SDD_TRIGGER_REFS	TABLE
15432	SCOTT	SDD_UNIQUE_IDENTIFIER_ENTRIES	TABLE
15467	SCOTT	SDD_VALIDATION_RULES	TABLE
15520	SCOTT	SDD_VRELEND	VIEW

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
15477	SCOTT	SDD_WEIGHTING_FACTORS	TABLE
15487	SCOTT	SDD_WHERE_CONDITIONS	TABLE
7161	SCOTT	SEQNOS	TABLE
7151	SCOTT	STATUSCODE	TABLE
15497	SCOTT	TAB_ENTS	TABLE
15507	SCOTT	USAGE	TABLE
15877	SDDACCOUNT	APPFUNC	VIEW
12562	SDDACCOUNT	APPLICATION_ENTITIES	TABLE
12572	SDDACCOUNT	APPLICATION_FUNCTIONS	TABLE
12592	SDDACCOUNT	APPLICATION_TABLES	TABLE
12612	SDDACCOUNT	CODE_CONTROLS	TABLE
12632	SDDACCOUNT	DUMMY	TABLE
12642	SDDACCOUNT	ENTITIES	TABLE
12672	SDDACCOUNT	REF_VALUES	TABLE
14927	SDDACCOUNT	SDD_ALT_KEY_ENTRIES	TABLE
13027	SDDACCOUNT	SDD_APPLICATION_DATASTORES	TABLE
13077	SDDACCOUNT	SDD_APPLICATION_MODULES	TABLE
12582	SDDACCOUNT	SDD_APPLICATION_SYSTEMS	TABLE
12602	SDDACCOUNT	SDD_ARC_ENTRIES	TABLE
12717	SDDACCOUNT	SDD_ATTRIBUTES	TABLE
12727	SDDACCOUNT	SDD_ATTRIBUTE_VALUES	TABLE
12737	SDDACCOUNT	SDD_CC_ATTRIBUTES	TABLE
12957	SDDACCOUNT	SDD_CC_COLUMNS	TABLE
13107	SDDACCOUNT	SDD_CHANGE_HISTORY	TABLE
12747	SDDACCOUNT	SDD_COLUMNS	TABLE
13037	SDDACCOUNT	SDD_COLUMN_ALIASES	TABLE
13140	SDDACCOUNT	SDD_COMMON_RELATIONSHIPS	VIEW
12977	SDDACCOUNT	SDD_DATAFLOWS	TABLE
13007	SDDACCOUNT	SDD_DATASTORES	TABLE
12622	SDDACCOUNT	SDD_DESCRIPTIONS	TABLE
12987	SDDACCOUNT	SDD_DFLOW_ATT_USAGE	TABLE
12757	SDDACCOUNT	SDD_DOMAINS	TABLE
12767	SDDACCOUNT	SDD_DOM_COL_ATTS	TABLE
13017	SDDACCOUNT	SDD_DSTORE_ATT_USAGE	TABLE
12777	SDDACCOUNT	SDD_ENT_TREE	TABLE
12787	SDDACCOUNT	SDD_ERRORS	TABLE
12797	SDDACCOUNT	SDD_EVENTS	TABLE
13097	SDDACCOUNT	SDD_FILES	TABLE
12652	SDDACCOUNT	SDD_FUNCTIONS	TABLE
12807	SDDACCOUNT	SDD_FUNCTION_MODULE_IMPL	TABLE
12997	SDDACCOUNT	SDD_FUNC_ATTR_MATRIX	TABLE
12817	SDDACCOUNT	SDD_INDEXES	TABLE
12827	SDDACCOUNT	SDD_INDEX_ENTRIES	TABLE
13127	SDDACCOUNT	SDD_MENU	TABLE
12837	SDDACCOUNT	SDD_MODULES	TABLE
13087	SDDACCOUNT	SDD_MOD_COL_USAGE	TABLE
12662	SDDACCOUNT	SDD_NOTES	TABLE
12707	SDDACCOUNT	SDD_RELATIONSHIP_ENDS	TABLE
13057	SDDACCOUNT	SDD_RELATION_SELECTIONS	TABLE
13117	SDDACCOUNT	SDD_RELEASE_NOTES	TABLE
13067	SDDACCOUNT	SDD_RESERVED_NAMES	TABLE
15637	SDDACCOUNT	SDD_ROW_IDENTIFIERS	TABLE
13047	SDDACCOUNT	SDD_SELECT_TEXT	TABLE
12947	SDDACCOUNT	SDD_SPACE_DEFINITIONS	TABLE
12907	SDDACCOUNT	SDD_SYNONYMS	TABLE
12847	SDDACCOUNT	SDD_TABLE_MODULE_USAGE	TABLE
12917	SDDACCOUNT	SDD_TAB_DEFS	TABLE
12967	SDDACCOUNT	SDD_TERMS	TABLE
12857	SDDACCOUNT	SDD_TRIGGER_REFS	TABLE
12867	SDDACCOUNT	SDD_UNIQUE_IDENTIFIER_ENTRIES	TABLE
12877	SDDACCOUNT	SDD_VALIDATION_RULES	TABLE
13137	SDDACCOUNT	SDD_VRELEND	VIEW
12887	SDDACCOUNT	SDD_WEIGHTING_FACTORS	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
12897	SDDACCOUNT	SDD_WHERE_CONDITIONS	TABLE
12927	SDDACCOUNT	TAB_ENTS	TABLE
12937	SDDACCOUNT	USAGE	TABLE
180	SYS	AUDIT_TRAIL	TABLE
45	SYS	COLAUTH	TABLE
15	SYS	COLUMNS	TABLE
2051	SYS	DBLINKS	TABLE
25	SYS	EXTENTS	TABLE
160	SYS	FILES	TABLE
100	SYS	INDEXES	TABLE
150	SYS	PARTITIONS	TABLE
120	SYS	PROGS	TABLE
130	SYS	PROG_STMNTS	TABLE
170	SYS	SEGQUOTAS	TABLE
140	SYS	SPACEMAP	TABLE
90	SYS	SPACES	TABLE
35	SYS	TABAUTH	TABLE
15	SYS	TABLES	TABLE
11049	SYS	TEMP2\$1	TABLE
16076	SYS	TEMP2\$2	TABLE
18311	SYS	TEMP2\$3	TABLE
18551	SYS	TEMP2\$4	TABLE
18791	SYS	TEMP2\$5	TABLE
18931	SYS	TEMP2\$6	TABLE
110	SYS	USERAUTH	TABLE
222	SYS	V4EXPCCLUS	VIEW
231	SYS	V4EXPCOL	VIEW
228	SYS	V4EXPEXTENTS	VIEW
216	SYS	V4EXPINDEX	VIEW
213	SYS	V4EXPSPACE	VIEW
234	SYS	V4EXPSYN	VIEW
219	SYS	V4EXPTAB	VIEW
225	SYS	V4EXPTABAUTH	VIEW
210	SYS	V4EXPUSER	VIEW
237	SYS	V4EXPVIEW	VIEW
80	SYS	VIEWS	TABLE
200	SYS	_default_auditing_options_	TABLE
190	SYS	_system_auditing_options_	TABLE
502	SYSTEM	AUDIT_ACCESS	VIEW
452	SYSTEM	AUDIT_ACTIONS	TABLE
496	SYSTEM	AUDIT_CONNECT	VIEW
490	SYSTEM	AUDIT_DBA	VIEW
493	SYSTEM	AUDIT_EXISTS	VIEW
487	SYSTEM	AUDIT_TRAIL	VIEW
333	SYSTEM	CATALOG	VIEW
345	SYSTEM	CLUSTERCOLUMNS	VIEW
342	SYSTEM	CLUSTERS	VIEW
431	SYSTEM	COL	VIEW
327	SYSTEM	COLUMNS	VIEW
705	SYSTEM	CRT	TABLE
695	SYSTEM	CRTBOX	TABLE
620	SYSTEM	CRT_PRODUCTS	TABLE
650	SYSTEM	CRT_TYPE	TABLE
446	SYSTEM	DEFAULT_AUDIT	VIEW
9974	SYSTEM	DEPT	TABLE
505	SYSTEM	DTAB	TABLE
10444	SYSTEM	DUAL	TABLE
9984	SYSTEM	EMP	TABLE
715	SYSTEM	ESC	TABLE
437	SYSTEM	EXPTAB	VIEW
440	SYSTEM	EXPVIEW	VIEW
290	SYSTEM	EXTENTS	VIEW
1165	SYSTEM	EZ\$COL	TABLE

TAB\$RBA	OWNER	TAB\$NAME	TAB\$TYP
1345	SYSTEM	EZCONTROL	TABLE
1385	SYSTEM	FUNCTIONS	TABLE
660	SYSTEM	GOTO LC	TABLE
750	SYSTEM	HELP	TABLE
246	SYSTEM	HELPTABLE	TABLE
1035	SYSTEM	IAPAPP	TABLE
1045	SYSTEM	IAPBLK	TABLE
1130	SYSTEM	IAPCOMMENT	TABLE
1055	SYSTEM	IAPFLD	TABLE
1095	SYSTEM	IAPMAP	TABLE
1085	SYSTEM	IAPSQLTXT	TABLE
1075	SYSTEM	IAPTRG	TABLE
1065	SYSTEM	IAPTRIGGER	TABLE
339	SYSTEM	INDEXES	VIEW
10019	SYSTEM	LINE_ITEMS	TABLE
640	SYSTEM	LORC	TABLE
7661	SYSTEM	MENU_APPLICATION	TABLE
7681	SYSTEM	MENU_COMMAND_TYPE	TABLE
7631	SYSTEM	MENU_HELP	TABLE
7611	SYSTEM	MENU_INFO	TABLE
7671	SYSTEM	MENU_MESSAGE	TABLE
7621	SYSTEM	MENU_OPTION	TABLE
7641	SYSTEM	MENU_PARAM	TABLE
7651	SYSTEM	MENU_PARAM_XREF	TABLE
7591	SYSTEM	MENU_USER	TABLE
7601	SYSTEM	MENU_WORK_CLASS	TABLE
318	SYSTEM	PARTITIONS	VIEW
14464	SYSTEM	PCBLDBOM	TABLE
5003	SYSTEM	PCBLDMST	TABLE
4993	SYSTEM	PCPRDMST	TABLE
7296	SYSTEM	PCSCHDOP	TABLE
2416	SYSTEM	PCWORKOP	TABLE
425	SYSTEM	PRIVATESYN	VIEW
10524	SYSTEM	PROJECT	TABLE
397	SYSTEM	PUBLICSYN	VIEW
6691	SYSTEM	QMX_INTERNAL_DATA	TABLE
1285	SYSTEM	SEQNOS	TABLE
499	SYSTEM	SESSIONS	VIEW
321	SYSTEM	SPACES	VIEW
287	SYSTEM	STORAGE	VIEW
394	SYSTEM	SYNONYMS	VIEW
330	SYSTEM	SYSCATALOG	VIEW
382	SYSTEM	SYSCOLAUTH	VIEW
324	SYSTEM	SYSCOLUMNS	VIEW
284	SYSTEM	SYSEXTENTS	VIEW
336	SYSTEM	SYSINDEXES	VIEW
391	SYSTEM	SYSPROGS	VIEW
281	SYSTEM	SYSSTORAGE	VIEW
275	SYSTEM	SYSTABALLOC	VIEW
379	SYSTEM	SYSTABAUTH	VIEW
443	SYSTEM	SYSTEM_AUDIT	VIEW
385	SYSTEM	SYSUSERAUTH	VIEW
388	SYSTEM	SYSUSERLIST	VIEW
376	SYSTEM	SYSVIEWS	VIEW
428	SYSTEM	TAB	VIEW
278	SYSTEM	TABALLOC	VIEW
449	SYSTEM	TABLE_AUDIT	VIEW
434	SYSTEM	TABQUOTAS	VIEW
10184	SYSTEM	TEST	TABLE
10584	SYSTEM	TIMEHOURS	TABLE
348	SYSTEM	VIEWS	VIEW

1006 records selected.

Appendix D

SDD Entity and Attribute Report

ORACLE
SQL * DESIGN DICTIONARY
Entities and Description

Application	Entity Name	Short name	Description
TIPS	CC OTHER DISPS	OTHERDISP	Other dispositions associated with a specified cost center.
	CC REJECTS	CCREJECTS	Reject codes associated with a specified cost center.
	COST CENTERS	COSTCNTR	Identifies all the cost centers and descriptions for production areas.
	CUSTOMERS	CUSTOMER	Names of design agencies/engineers requesting data.
	DATA TYPES	DATATYPE	Codes used to identify data types.
	DISP CODES	DISPCODES	Disposition codes and their descriptions.
	FIELD ID SPECS	FIELDSPEC	Geisha field ids associated with product and test code specifications.
	GEISHA FIELD IDS	FIELDID	Valid field ids and their associated descriptions. ***** All field ids for a given product must be the same length.
	GEISHA TEST CODES	TESTCODE	Valid test codes and their associated descriptions.
	GROUPS	GROUPS	Identifies the various ways of physically grouping serialized/unserialized parts. IE. trays, reels etc.
	INSPECTION CODES	INSPCODE	List of valid inspection codes.
	ITEM INFO	ITEMINFO	Current information about each serialized/unserialized item.
	LOTS	LOTS	Identifies all the lots for a particular product. The table will be propagated outside of TIPS.
	MEASUREMENTS	MEASURE	Container various types of measurement instruments ie. testers, fixtures, gages etc.
	OPERATIONS	OPERATION	Table containing all valid major and minor operations for a product. This table will be propagated outside of TIPS. DETAIL WORK OPERATION BY PRODUCT OR SCHEDULEABLE OPERATIONS
	OPERATORS	OPERATOR	Control segment links hp number of operators to a corresponding SDD REPORTS :ENT1

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ORACLE
SQL * DESIGN DICTIONARY
Entities and Description

Application	Entity Name	Short name	Description
TIPS	OPERATORS	OPERATOR	tips reading.
	OTHER DISP CODES	OTHDISP	Identifies valid disposition codes which can be used on the tips system.
	PRODUCTS	PRODUCT	This table will be propagated outside of TIPS. THIS ENTITY IS IN PROCODE AS PRODUCT MASTER. THAT WILL BE A CROSS REFERENCE FOR OTHER PRODUCTS. INCLUDES BUILD, FURNISH, PURCHASED PRODUCTS. TO ALL OTHER PRODUCTION ENTITIES AND TABLES.
	QC NUMBERS	QCNUMBER	Control segment linking qc numbers with a specific tips reading.
	REJECT CODES	REJECTCODE	Reject codes and associated descriptions.
	REJECTS	REJECT	Identifies the rejects performed on one or more items.
	REQUESTORS	REQUESTOR	Control segment linking customers to their desired data reporting requirements.
	REWORK CODES	REWORKCDS	Identifies valid rework codes and their descriptions.
	REWORKS	REWORK	Rework information for a specific serial number/item.
	SOURCE CODES	SOURCE	Identifies valid data sources and their descriptions. s - product acceptance q - surveillance data etc.
	SUB LOTS	SUBLOT	Describes the different ways part/items may be grouped logically together. ex. blocks, sub-lots, runs, etc.
	TEST CODE SPECS	CODESPEC	Geisha test codes and their associated information for each drawing/product specification.
	TEST SPECS	TESTSPEC	Contains an occurrence for each version of a drawing number or product specification or a test specification.

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ORACLE
SQL * DESIGN DICTIONARY
Entities and Description

Application	Entity Name	Short name	Description
TIPS	TIPS	TIPS	Contains all the reading/waveform data collected in TIPS.

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48 records selected.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	CC OTHER DISPS	CC DISP ID	N	IN	10		Primary key - generated id.
		COST CENTER ID	Y	IN	10		Foreign key - links cc other disp to cost center table.
		OTHER DISP CODE	Y	CH	10		Foreign key - links cc other disp to other disp code table.
	CC REJECTS	CC REJECT ID	N	IN	10		Primary key - generated id.
		COST CENTER ID	Y	IN	10		Foreign key - links cc rejects to cost center table.
		REJECT CODE	Y	CH	10		Foreign key - links cc rejects to reject codes table.
	COST CENTERS	COST CENTER ID	N	IN	10		Primary key - generated id.
		COST CENTER	Y	CH	4		Identifies valid cost centers.
		COST CENTER DESCRIPTION	Y	CH	40		Description of cost center.
CUSTOMERS		CUSTOMER ID	N	IN	10		Primary key - generated id.
		CUSTOMER NAME	Y	CH	20		Name of the design agency or engineer.
		CUSTOMER ADDRESS	Y	CH	40		Address of site.
		CUSTOMER LOCATION	Y	CH	20		Location/Site of where the data will be sent to.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	DATA TYPES	DATA TYPE	N	CH	1		Primary key - variable, misc., attribute, date
		DATA TYPE DESCRIPTION	Y	CH	20		Description for each data type.
	DISP CODES	DISP CODE	N	CH	2		Primary key - accept, reject, conform, hi, low, hold, deviat.
		DISP DESCRIPTION	Y	CH	20		Description of the disposition code.
	FIELD ID SPECS	CONTROL ID	N	IN	10		Primary key - generated id.
		TEST SPEC ID	Y	IN	10		Foreign key - links field id spec and test spec table.
		TEST CODE SPEC ID	Y	IN	10		Foreign key - links field id spec and test code spec table.
		SPEC UPPER LIMIT	Y	NU			Maximum value allowed by the product specification.
		SPEC LOWER LIMIT	Y	NU			Minimum value allowed by the product specification.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	FIELD ID SPECS	FIELD ID ID	Y	IN	10		Foreign key - links field id spec to geisha field id table.
		CNTL LOWER LIMIT	Y	NU			Minimum value set for control limits.
		SPC LOWER LIMIT	Y	NU			Minimum spc value allowed for product specifications.
		SPC UPPER LIMIT	Y	NU			Maximum spc value allowed for product specifications.
		DATE CHANGED	Y	DA			Date field id specifications were changed.
		MIN READINGS	Y	NU			Minimum number of readings required for the field id.
		CNTL UPPER LIMIT	Y	NU			Maximum value set for control limits.
	GEISHA FIELD IDS	FIELD ID ID	N	IN	10		Primary key - generated id.
		GEISHA FIELD ID	Y	CH	6		Code representing a specific type of reading.
		TEST SPEC NUMBER	Y	CH	8		Foreign key - links geisha field ids to test spec table.
		DATA TYPE	Y	CH	1		Foreign key - links geisha field ids to data types table.
		FIELD ID DESCRIPTION	Y	CH	20		Description for the field id.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	GEISHA TEST CODES	TEST CODE ID	N	NU			Primary key - generated id.
		GEISHA TEST CODE	Y	CH	2		Code identifying a specific test.
		TEST SPEC NUMBER	Y	CH	8		Foreign key - links geisha test codes to test spec table.
		TEST CODE DESCRIPTION	Y	CH	20		Description associated with the test code.
	GROUPS	GROUP CODE	N	CH	4		Primary key - code identifying physical groupings of items.
		GROUP NAME	Y	CH	10		Describes the type of grouping.
	INSPECTION CODES	INSPECT CODE	N	CH	10		Primary key - inspection code.
		INSPECT CODE DESC	Y	CH	20		Description of the inspection codes.
ITEM INFO		SERIAL ID	N	IN	10		Primary key - generated id.
		MANUFACTURE CODE	Y	CH	6		Code identifying the manufacturer of an item.
		LOT ID	Y	IN	10		Foreign key - links item info to lot table.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	ITEM INFO	GROUP CODE	Y	CH	4		Foreign key - links item info to group table.
		SERIAL NUMBER	Y	CH	20		Unique identifier of an item.
		DATE ASSEMBLED	Y	DA			Date the item was assembled.
		PRODUCT ID	Y	IN	10		Foreign key - links item info to product table.
		MANUFACTURE DATE CODE	Y	CH	3		Date code identifying when the item was manufactured.
		GROUP VALUE	Y	CH	9		Value associated with the group code.
		POSITION2	Y	CH	5		Identifies location of unserialized parts found in groups.
		DISP CODE	Y	CH	2		Foreign key - links item info and disp code table.
		DATE CREATION	Y	DA			Date item was created.
		SUB LOT CODE	Y	CH	5		Foreign key - links item info to sub lot table.
		SUB LOT VALUE	Y	CH	10		Value associated with the sub lot code.
		REMARKS	Y	CH	80		Narrative associated with the given item/part.
		DISPOSITION REASON	Y	CH	20		Reason for the current disposition.
		POSITION3	Y	CH	5		Identifies location of unserialized parts found in groups.
		POSITION1	Y	CH	5		Identifies location of unserialized parts found in groups.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	LOTS	LOT ID	N	IN	10		Primary key - generated id.
		QTY REJECTED	Y	IN	10		Number of parts rejected within a lot.
		HP PRODUCT ENGINEER	Y	CH	4		HP number of the responsible product engineer.
		HP QC ENGINEER	Y	CH	4		HP number of the responsible QC engineer.
		PRODUCT ID	Y	IN	10		Foreign key - links lots to product table.
		QTY TESTED	Y	IN	10		Number of parts tested within a lot.
	MEASUREMENTS	QTY STARTED	Y	IN	10		Starting quantity of parts within a lot.
		LOT NUMBER	Y	CH	6		Identifies a group of parts in the production process.
		MEASUREMENT ID	N	IN	10		Primary key - generated id.
		MEASUREMENT TYPE	Y	CH	4		Type of instrument used to take measurement
		MEASUREMENT NUMBER	Y	CH	10		Number of the tester/gage/fixture/etc. being used.
		MEASUREMENT NAME	Y	CH	10		Description of the type of measurement instrument used.
		TESTER SERIAL NUMBER	Y	CH	10		Serial number of the tester.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	OPERATIONS	OPERATION ID	N	IN	10		Primary key - generated id.
		OPERATION MAJOR	Y	CH	4		List of major operations for a specific product.
		OPERATION MINOR	Y	CH	4		List of minor operations for a specific product.
		PRODUCT ID	Y	IN	10		Foreign key - links operation and product table.
		OPERATION SEQUENCE	Y	CH	6		Sequence number of the operation within the production process.
		OPERATION DESCRIPTION	Y	CH	30		Detailed description of the major and minor operations.
	OPERATORS	OPERATOR ID	N	IN	10		Primary key - generated id.
		HP OPERATOR	Y	CH	4		Hp number of the operator performing the reading.
		TIPS ID	Y	IN	10		Foreign key - links operator to tips readings table.
	OTHER DISP CODES	OTHER DISP CODE	N	CH	10		Primary key - identifies the disposition of the reject.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	OTHER DISP CODES	OTHER DISP DESCRIPTION	Y	CH	40		Description of the other disposition code.
	PRODUCTS	PRODUCT ID	N	IN	10		Primary key - generated id.
		PRODUCT CODE	Y	CH	10		MRC code identifying a product.
		PRODUCT NAME	Y	CH	12		Identifies a weapon part - MC number.
	QC NUMBERS	QC ID	N	IN	10		Primary key - generated id.
		TIPS ID	Y	IN	10		Foreign key - links qc number to tips table.
		QC NUMBER	Y	NU			QC numbers associated with a specific tips reading.
	REJECT CODES	REJECT CODE	N	CH	10		Primary key - identifies the reason a part was rejected.
		REJECT CODE DESCRIPTION	Y	CH	40		Description for the reject code.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	REJECTS	REJECT ID	N	IN	10		Primary key - generated id.
		REJECT CODE	Y	CH	10		Foreign key - links reject and reject code table.
		REJECT AREA CODE	Y	CH	10		Identifies the area the reject code was assigned.
		SXR NUMBER	Y	CH	10		Identifies SXR number written against acceptable rejects.
		OTHER DISP CODE	Y	CH	10		Foreign key - links reject and reject disp code table.
		COST CENTER ID	Y	IN	10		Foreign key - links reject and cost center table.
	REQUESTORS	REQUESTOR ID	N	IN	10		Primary key - generated id.
		CUSTOMER ID	Y	IN	10		Foreign key - links requestor to customer table.
		CONTROL ID	Y	IN	10		Foreign key - links requestor to field id spec table.
REWORK CODES		REWORK CODE	N	CH	6		Primary key - identifies the reason a part was reworked.
		REWORK CODE DESCRIPTION	Y	CH	40		Description of the rework code.
		SDD REPORTS : ATTRIB14					

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	REWORKS	REWORK ID	N	IN	10		Primary key - generated id.
		SIER NUMBER	Y	CH	10		The number of the SIER written to request the rework.
		REWORK DATE CODE	Y	CH	3		The date code of a unit which was reworked.
		REWORK SUFFIX	Y	CH	2		Identified retroactive changes accomplished by retrofit.
		REWORK MANUFACTURE CODE	Y	CH	6		Manufacture code of manufacturer other than the original manuf.
		REWORK CODE	Y	CH	6		Rework code.
	SOURCE CODES	SOURCE CODE	N	CH	2		Primary key - Identifies the data source of the reading.
		SOURCE CODE DESCRIPTION	Y	CH	20		Description of the source code.
	SUB LOTS	SUB LOT CODE	N	CH	5		Primary key - code identifying sub lots of parts/items
		SUB LOT NAME	Y	CH	10		Describes the type of sub-lots.
		SDD REPORTS : ATTRIB14					

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	TEST CODE SPECS	TEST CODE SPEC ID	N	IN	10		Primary key - generated id.
		FORM TITLE	Y	CH	20		?????
		DATE CHANGED	Y	DA			Date the test code specifications were changed.
		REPORT LEVEL	Y	NU			Reporting level for ROA data.
		TEST SPEC ID	Y	IN	10		Foreign key - links test code spec to test spec table.
		TEST CODE ID	Y	NU			Foreign key - links test code spec to geisha test code table.
	TEST SPECS	TEST SPEC ID	N	IN	10		Primary key - generated id.
		TEST SPEC PREFIX	Y	CH	4		Prefix associated with a drawing/product/test spec document.
		DATE CHANGED	Y	DA			Date drawing/product/test specification information changed.
		TEST SPEC ISSUE	Y	CH	4		Issue associated with a drawing/product/test spec document.
		TEST SPEC SUFFIX	Y	CH	4		Suffix associated with a drawing/product/test spec document.
		TEST SPEC NUMBER	Y	CH	8		Identifies a drawing/product/test specification document.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	TIPS	TIPS ID	N	IN	10		Primary key - generated id.
		READING ATTRIBUTE	Y	CH	8		Data value associated with attribute type field ids.
		READING MISC	Y	CH	8		Data value associated with miscellaneous type field ids.
		MEASUREMENT ID	Y	IN	10		Foreign key - links tips to measurement table.
		SUB LOT VALUE	Y	CH	10		Value of the sub lot at the time of the reading.
		SUB LOT CODE	Y	CH	5		Foreign key - links tips to sub lot table.
		GROUP CODE	Y	CH	4		Foreign key - links tips to group table.
		PRODUCT CODE	Y	CH	10		MRC code identifying a product.
		TESTER ADAPTOR	Y	CH	10		Apaptor for tester performing test.
		POSITION2	Y	CH	5		Identifies location of unserialized parts found in groups.
		INSPECT CODE	Y	CH	10		Foreign key - links tips to inspect codes table.
		REJECT ID	Y	IN	10		Foreign key - links tips to reject table.
		COMMENTS	Y	CH	80		Narrative associated with the reading.
		SOURCE CODE	Y	CH	2		Foreign key - links tips to source code table.

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ORACLE
SQL * DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	TIPS	ATTEMPT NUMBER	Y	CH	4		Sequence number for a product being retested.
		DATE TRANSMITTED	Y	DA			Date data was transmitted.
		ULTIMATE DISPOSITION	Y	CH	10		Final disposition of an item - (DACI).
		SUBASSEMBLY SERIAL ID	Y	IN	10		Foreign key - serial id of a subassembly - links to tips table.
		ROA LEVEL	Y	NU			Level of containment of the subassembly id.
		CONTROL ID	Y	IN	10		Foreign key - links tips to the field id spec table.
		MDS TRAVELER NUMBER	Y	CH	6		Traveler numbers associated with MDS data.
		READING VARIABLE	Y	NU			Data value associated with numeric type field ids.
		ATTEMPT SWITCH	Y	CH	2		???????
		POSITION3	Y	CH	5		Identifies location of unserialized parts found in groups.
		OPERATION ID	Y	IN	10		Foreign key - links tips to operation table.
		READING DATE	Y	DA			Data value associated with date type field ids.
		DISP CODE	Y	CH	2		Foreign key - links tips to disposition code table.
		REWORK ID	Y	IN	10		Foreign key - links tips to rework table.

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ORACLE
SQL *DESIGN DICTIONARY
Detailed Entity/Attribute Listing

Application	Entity	Attribute Name	Opt	FT	Size	Dec Pl	Attribute Notes
TIPS	TIPS	READING WAVEFORM	Y	NU			Digital waveform data.
		DATE TEST	Y	DA			Date and time stamp of the reading.
		POSITION1	Y	CH	5		Identifies location of unserialized parts found in groups.
		GROUP VALUE	Y	CH	9		Value of group type at the time of the reading.
		SERIAL ID	Y	IN	10		Foreign key - links tips to item info table.

SDD REPORTS : ATTRIB14

158 records selected.

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