**ORACLE DATA DICTIONAY/SYSTEM CATALOG**

Oracle data dictionary describes meta data. Meta data is about defining data structures maintained in the database. These structures are such as tables, attributes, and views. In the following list of some of the common ‘USER’ related tables are provided.

In this document, all data dictionary views which starts with “USER” can be replaced by “ALL”, e.g. USER\_TABLES can be replaced by ALL\_TABLES

The difference is: “USER” gives information for the objects, which are only in the user’s schema, whereas “ALL” gives information for those objects too which are in other users’ schemas and have been granted privileges to access those objects by other users. The data model for user data dictionary is provided at the end of this section.

1. USER\_CATALOG

2. USER\_COL\_COMMENTS

3. USER\_COL\_PRIVS

4. USER\_COL\_PRIVS\_MADE

5. USER\_COL\_PRIVS\_RECD

6. USER\_CONS\_COLUMNS

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9. USER\_IND\_COLUMNS

10. USER\_INDEXES

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12. USER\_OBJECTS

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19. USER\_TAB\_COMMENTS

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23. USER\_TABLES or TABS

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30. COLUMN\_PRIVILEGES

31. DICT\_COLUMNS

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33. ROLE\_ROLE\_PRIVS

34. ROLE\_SYS\_PRIVS

35. ROLE\_TAB\_PRIVS

36. SESSION\_PRIVS

37. SESSION\_ROLES

38. TABLE\_PRIVILEGES

**USER\_CATALOG**

Tables, Views, Synonyms and Sequences owned by the user

Name Null? Type

------------ --------- --------------------

TABLE\_NAME NOT NULL VARCHAR2(30)

TABLE\_TYPE VARCHAR2(11)

SQL> select \* from user\_catalog;

|  |  |
| --- | --- |
| **TABLE\_NAME** | **TABLE\_TYPE** |
| BACKORDER | TABLE |
| BRANCH | TABLE |
| BRANCHNO\_SEQ | SEQUENCE |
| BROADCAST | TABLE |
| COURSE | TABLE |
| CUSTOMER | TABLE |
| CUSTORDERFORM | VIEW |
| EMPLOYEE | TABLE |
| EVENT | TABLE |
| EXPENSIVE\_PRODUCT | TABLE |

**…**

**USER\_COL\_COMMENTS**

Comments on columns of user's tables and views

Name Null? Type

-------------- -------- --------------

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

COMMENTS VARCHAR2(4000)

SQL> select \* from user\_col\_comments;

|  |  |  |
| --- | --- | --- |
| **TABLE\_NAME** | **COLUMN\_NAME** | **COMMENTS** |
| BACKORDER | BACKORDER\_NO |  |
| BACKORDER | PRODUCT\_NO |  |
| BACKORDER | BO\_QTY |  |
| BACKORDER | BO\_DATE |  |
| BRANCH | BRANCH\_NO |  |
| BRANCH | STREET |  |
| BRANCH | CITY |  |
| BRANCH | STATE |  |

**…**

**USER\_COL\_PRIVS**

Grants on columns for which the user is the owner, grantor or grantee

Name Null? Type

----------------------------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from user\_col\_privs;

no rows selected

**USER\_COL\_PRIVS\_MADE**

All grants on columns of objects owned by the user

Name Null? Type

----------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from user\_col\_privs\_made;

no rows selected

**USER\_COL\_PRIVS\_RECD**

Grants on columns for which the user is the grantee

Name Null? Type

------------ -------- -------------

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from user\_col\_privs\_recd;

no rows selected

**USER\_CONSTRAINTS**

Constraint definitions on user's own tables

Name Null? Type

---------------- ------------- -----------------

OWNER NOT NULL VARCHAR2(30)

CONSTRAINT\_NAME NOT NULL VARCHAR2(30)

CONSTRAINT\_TYPE VARCHAR2(1)

TABLE\_NAME NOT NULL VARCHAR2(30)

SEARCH\_CONDITION LONG

R\_OWNER VARCHAR2(30)

R\_CONSTRAINT\_NAME VARCHAR2(30)

STATUS VARCHAR2(8)

LAST\_CHANGE DATE

set linesize 180

col OWNER for a15

col CONSTRAINT\_NAME for a15

col TABLE\_NAME for a15

col SEARCH\_CONDITION for a15

col R\_OWNER for a15

col R\_CONSTRAINT\_NAME for a15

SQL> select owner, table\_name, constraint\_name, constraint\_type, r\_owner, r\_constraint\_name, status

from user\_constraints;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **OWNER** | **TABLE\_NAME** | **CONSTRAINT\_NAME** | **C** | **R\_OWNER** | **R\_CONSTRAINT\_NAME** | **STATUS** |
| OES | BACKORDER | BACKORDER\_BACKORDERNO\_PK | P |  |  | ENABLED |
| OES | BACKORDER | PRODUCT\_BACKORDER\_FK | R | OES | PRODUCT\_PRODUCTNO\_PK | ENABLED |
| OES | BRANCH | SYS\_C0038988 | C |  |  | ENABLED |
| OES | BRANCH | SYS\_C0038989 | C |  |  | ENABLED |
| OES | BRANCH | SYS\_C0038990 | C |  |  | ENABLED |
| OES | BRANCH | BRANCH\_ZIP\_CHK | C |  |  | ENABLED |
| OES | BRANCH | BRANCH\_BRANCHNO\_PK | P |  |  | ENABLED |
| OES | BROADCAST | PK\_BROADCAST | P |  |  | ENABLED |
| OES | COURSE | PK\_COURSE | P |  |  | ENABLED |

**…**

**USER\_CONS\_COLUMNS**

Information about accessible columns in constraint definitions

Name Null? Type

---------------- -------- --------------------

OWNER NOT NULL VARCHAR2(30)

CONSTRAINT\_NAME NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME VARCHAR2(4000)

POSITION NUMBER

col OWNER for a7

col CONSTRAINT\_NAME for a16

col TABLE\_NAME for a15

col column\_name for a15

OWNER CONSTRAINT\_NAME TABLE\_NAME COLUMN\_NAME POSITION

------- ---------------- --------------- --------------- ---------

OES BRANCH\_NO\_PK BRANCH BRANCH\_NO 1

OES EMPLOYEE\_NO\_PK EMPLOYEE EMPLOYEE\_NO 1

OES EMP\_BRANCH\_NO\_FK EMPLOYEE BRANCH\_NO 1

**USER\_DEPENDENCIES**

Dependencies to and from a user’s objects

Name Null? Type

----------------------------- -------- --------------------

NAME NOT NULL VARCHAR2(30)

TYPE VARCHAR2(12)

REFERENCED\_OWNER VARCHAR2(30)

REFERENCED\_NAME VARCHAR2(64)

REFERENCED\_TYPE VARCHAR2(12)

REFERENCED\_LINK\_NAME VARCHAR2(128)

SCHEMAID NUMBER

DEPENDENCY\_TYPE VARCHAR2(4)

col REFERENCED\_OWNER for a15

col REFERENCED\_NAME for a15

col NAME for a15

col REFERENCED\_LINK\_NAME for a15

SQL> select name, type, referenced\_owner, referenced\_name, referenced\_type, dependency\_type

from user\_dependencies;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NAME** | **TYPE** | **REFERENCED\_OWNER** | **REFERENCED\_NAME** | **REFERENCED\_TYPE** | **DEPE** |
| V\_EMP | VIEW | SYS | STANDARD | PACKAGE | HARD |
| FIND\_OLDEST\_STAFF | PROCEDURE | SYS | STANDARD | PACKAGE | HARD |
| TRIG\_VEMP\_UPDATE | TRIGGER | SYS | STANDARD | PACKAGE | HARD |
| OES\_GRANT | TRIGGER | SYS | STANDARD | PACKAGE | HARD |
| OES\_GRANT | TRIGGER | SYS | DBMS\_JOB | PACKAGE | HARD |
| OES\_GRANT | TRIGGER | PUBLIC | DBMS\_JOB | SYNONYM | HARD |

…

**USER\_INDEXES**

Description of the user's own indexes.

Name Null? Type

----------------------------- -------- --------------------

INDEX\_NAME NOT NULL VARCHAR2(30)

INDEX\_TYPE VARCHAR2(27)

TABLE\_OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

TABLE\_TYPE VARCHAR2(11)

UNIQUENESS VARCHAR2(9)

COMPRESSION VARCHAR2(8)

TABLESPACE\_NAME VARCHAR2(30)

col INDEX\_NAME for a15

col INDEX\_TYPE for a15

col TABLE\_OWNER for a7

col TABLE\_NAME for a15

col TABLE\_TYPE for a15

col UNIQUENESS for a15

col COMPRESSION for a15

col TABLESPACE\_NAME for a15

SQL> select index\_name, index\_type, table\_owner, table\_name, uniqueness

from user\_indexes;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **INDEX\_NAME** | **INDEX\_TYPE** | **TABLE\_OWNER** | **TABLE\_NAME** | **UNIQUENES** |
| BACKORDER\_BACKORDERNO\_PK | NORMAL | OES | BACKORDER | UNIQUE |
| BRANCH\_BRANCHNO\_PK | NORMAL | OES | BRANCH | UNIQUE |
| BRAND\_IDX | NORMAL | OES | PRODUCT | NONUNIQUE |
| CUST\_CUSTOMERNO\_PK | NORMAL | OES | CUSTOMER | UNIQUE |
| EMP\_EMPLOYEENO\_PK | NORMAL | OES | EMPLOYEE | UNIQUE |
| ORDERLINE\_ORDERLINENO\_PK | NORMAL | OES | ORDERLINE | UNIQUE |
| ORDERS\_ORDERNO\_PK | NORMAL | OES | ORDERS | UNIQUE |

**USER\_IND\_COLUMNS**

COLUMNs comprising user's INDEXes and INDEXes on user's TABLES

Name Null? Type

----------------------------- -------- --------------------

INDEX\_NAME VARCHAR2(30)

TABLE\_NAME VARCHAR2(30)

COLUMN\_NAME VARCHAR2(4000)

COLUMN\_POSITION NUMBER

COLUMN\_LENGTH NUMBER

DESCEND VARCHAR2(4)

col column\_name for a12

col INDEX\_NAME for a15

col TABLE\_NAME for a10

SQL> select \* from user\_ind\_columns;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **INDEX\_NAME** | **TABLE\_NAME** | **COLUMN\_NAME** | **COLUMN\_POSITION** | **COLUMN\_LENGTH** | **CHAR\_LENGTH** | **DESC** |
| BACKORDER\_BACKORDERNO\_PK | BACKORDER | BACKORDER\_NO | 1 | 22 | 0 | ASC |
| BRANCH\_BRANCHNO\_PK | BRANCH | BRANCH\_NO | 1 | 22 | 0 | ASC |
| PK\_BROADCAST | BROADCAST | BROADCAST\_ID | 1 | 22 | 0 | ASC |
| PK\_COURSE | COURSE | COURSE\_ID | 1 | 22 | 0 | ASC |
| CUST\_CUSTOMERNO\_PK | CUSTOMER | CUSTOMER\_NO | 1 | 22 | 0 | ASC |
| EMP\_EMPLOYEENO\_PK | EMPLOYEE | EMPLOYEE\_NO | 1 | 22 | 0 | ASC |
| SEX\_B\_IDX | EMPLOYEE | SEX | 1 | 1 | 1 | ASC |

**…**

**USER\_INTERNAL\_TRIGGERS**

Description of the internal triggers on the user's own tables

Name Null? Type

----------------------------- -------- --------------------

TABLE\_NAME VARCHAR2(30)

INTERNAL\_TRIGGER\_TYPE VARCHAR2(19)

SQL> select \* from user\_internal\_triggers;

no rows selected

**USER\_OBJECTS**

Objects owned by the user

Name Null? Type

----------------------------- -------- --------------------

OBJECT\_NAME VARCHAR2(128)

OBJECT\_ID NUMBER

OBJECT\_TYPE VARCHAR2(18)

CREATED DATE

LAST\_DDL\_TIME DATE

TIMESTAMP VARCHAR2(19)

STATUS VARCHAR2(7)

SQL> select object\_id, object\_name, object\_type, created, status

from user\_objects;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OBJECT\_ID** | **OBJECT\_NAME** | **OBJECT\_TYPE** | **CREATED** | **STATUS** |
| 51504 | BACKORDER | TABLE | 22-OCT-04 | VALID |
| 51505 | BACKORDER\_BACKORDERNO\_PK | INDEX | 22-OCT-04 | VALID |
| 51496 | BRANCH | TABLE | 22-OCT-04 | VALID |
| 51523 | BRANCHNO\_SEQ | SEQUENCE | 25-OCT-04 | VALID |
| 51497 | BRANCH\_BRANCHNO\_PK | INDEX | 22-OCT-04 | VALID |
| 51518 | BRAND\_IDX | INDEX | 25-OCT-04 | VALID |
| 51356 | BROADCAST | TABLE | 22-OCT-04 | VALID |

**USER\_ROLE\_PRIVS**

Roles granted to current user

Name Null? Type

----------------- -------- --------------

USERNAME VARCHAR2(30)

GRANTED\_ROLE VARCHAR2(30)

ADMIN\_OPTION VARCHAR2(3)

DEFAULT\_ROLE VARCHAR2(3)

OS\_GRANTED VARCHAR2(3)

SQL> select \* from user\_role\_privs;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USERNAME** | **GRANTED\_ROLE** | **ADM** | **DEF** | **OS\_** |
| OES | CONNECT | NO | YES | NO |

**USER\_SEQUENCES**

Description of the user's own SEQUENCEs

Name Null? Type

----------------------------- -------- --------------------

SEQUENCE\_NAME NOT NULL VARCHAR2(30)

MIN\_VALUE NUMBER

MAX\_VALUE NUMBER

INCREMENT\_BY NOT NULL NUMBER

CYCLE\_FLAG VARCHAR2(1)

ORDER\_FLAG VARCHAR2(1)

CACHE\_SIZE NOT NULL NUMBER

LAST\_NUMBER NOT NULL NUMBER

col SEQUENCE\_NAME for a10

SQL> select \* from user\_sequences;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SEQUENCE\_NAME** | **MIN\_VALUE** | **MAX\_VALUE** | **INCREMENT\_BY** | **C** | **O** | **CACHE\_SIZE** | **LAST\_NUMBER** |
| BRANCHNO\_SEQ | 1 | 8000 | 1 | N | N | 0 | 7504 |

**USER\_SOURCE**

Source of stored objects accessible to the user

Name Null? Type

----------------------------- -------- --------------------

NAME VARCHAR2(30)

TYPE VARCHAR2(12)

LINE NUMBER

TEXT VARCHAR2(4000)

SQL> select \* from user\_source;

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **TYPE** | **LINE** | **TEXT** |
| FIND\_OLDEST\_STAFF | PROCEDURE | 1 | procedure find\_oldest\_staff |
| FIND\_OLDEST\_STAFF | PROCEDURE | 2 | (branchno in varchar2, |
| FIND\_OLDEST\_STAFF | PROCEDURE | 3 | fname out staff.fname%type, |
| FIND\_OLDEST\_STAFF | PROCEDURE | 4 | lname out staff.lname%type) is |
| FIND\_OLDEST\_STAFF | PROCEDURE | 5 | cursor b is select fname, lname from staff |
| FIND\_OLDEST\_STAFF | PROCEDURE | 6 | where dob = (select max(dob) |

**…**

**USER\_SYNONYMS**

The user's private synonyms

Name Null? Type

----------------------------- -------- --------------------

SYNONYM\_NAME NOT NULL VARCHAR2(30)

TABLE\_OWNER VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

DB\_LINK VARCHAR2(128)

SYNONYM\_NAME TABLE\_OWNER TABLE\_NAME DB\_LINK

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EMP OES EMPLYEE

RP OES RETURNPROD

**USER\_SYS\_PRIVS**

System privileges granted to current user

Name Null? Type

----------------------------- -------- --------------------

USERNAME VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

ADMIN\_OPTION VARCHAR2(3)

SQL> select \* from user\_sys\_privs;

|  |  |  |
| --- | --- | --- |
| **USERNAME** | **PRIVILEGE** | **ADM** |
| OES | UNLIMITED TABLESPACE | NO |
| PUBLIC | CREATE TRIGGER | NO |
| PUBLIC | CREATE PROCEDURE | NO |

**USER\_TABLES** or **TABS**

Description of the user's own relational tables

Name Null? Type

----------------------------- -------- --------------------

TABLE\_NAME NOT NULL VARCHAR2(30)

TABLESPACE\_NAME VARCHAR2(30)

NUM\_ROWS NUMBER

SQL> select table\_name, tablespace\_name

from user\_tables;

OR

SQL> select table\_name, tablespace\_name

from tabs;

|  |  |
| --- | --- |
| **TABLE\_NAME** | **TABLESPACE\_NAME** |
| BACKORDER | USERS |
| BRANCH | USERS |
| BROADCAST | USERS |
| COURSE | USERS |
| CUSTOMER | USERS |
| EMPLOYEE | USERS |
| EVENT | USERS |

…

**USER\_TAB\_COLUMNS** or **COLS**

Columns of user's tables, views and clusters

Name Null? Type

----------------------------- -------- --------------------

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

DATA\_TYPE VARCHAR2(106)

DATA\_LENGTH NOT NULL NUMBER

DATA\_PRECISION NUMBER

DATA\_SCALE NUMBER

NULLABLE VARCHAR2(1)

COLUMN\_ID NOT NULL NUMBER

DEFAULT\_LENGTH NUMBER

DATA\_DEFAULT LONG

AVG\_COL\_LEN NUMBER

SQL> select table\_name, column\_name, data\_type, data\_length, nullable, default\_length

from user\_tab\_columns;

OR

SQL> select table\_name, column\_name, data\_type, data\_length, nullable, default\_length

from cols;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TABLE\_NAME** | **COLUMN\_NAME** | **DATA\_TYPE** | **DATA\_LENGTH** | **N** | **DEFAULT\_LENGTH** |
| BACKORDER | BACKORDER\_NO | NUMBER | 22 | N |  |
| BACKORDER | PRODUCT\_NO | NUMBER | 22 | Y |  |
| BACKORDER | BO\_QTY | NUMBER | 22 | Y |  |
| BACKORDER | BO\_DATE | DATE | 7 | Y |  |
| BRANCH | BRANCH\_NO | NUMBER | 22 | N |  |
| BRANCH | STREET | VARCHAR2 | 30 | Y |  |

…

**USER\_TABLESPACES**

Description of accessible tablespaces

Name Null? Type

----------------------------- -------- --------------------

TABLESPACE\_NAME NOT NULL VARCHAR2(30)

STATUS VARCHAR2(9)

CONTENTS VARCHAR2(9)

INITIAL\_EXTENT NUMBER

NEXT\_EXTENT NUMBER

MIN\_EXTENTS NOT NULL NUMBER

MAX\_EXTENTS NUMBER

PCT\_INCREASE NUMBER

MIN\_EXTLEN NUMBER

SQL> select tablespace\_name, status, contents

from user\_tablespaces;

|  |  |  |
| --- | --- | --- |
| **TABLESPACE\_NAME** | **STATUS** | **CONTENTS** |
| SYSTEM | ONLINE | PERMANENT |
| UNDOTBS1 | ONLINE | UNDO |
| TEMP | ONLINE | TEMPORARY |
| CWMLITE | ONLINE | PERMANENT |
| DRSYS | ONLINE | PERMANENT |
| EXAMPLE | ONLINE | PERMANENT |
| INDX | ONLINE | PERMANENT |
| ODM | ONLINE | PERMANENT |
| TOOLS | ONLINE | PERMANENT |
| USERS | ONLINE | PERMANENT |
| XDB | ONLINE | PERMANENT |

**USER\_TAB\_COMMENTS**

Comments on the tables and views owned by the user

Name Null? Type

----------------------------- -------- --------------------

TABLE\_NAME NOT NULL VARCHAR2(30)

TABLE\_TYPE VARCHAR2(11)

COMMENTS VARCHAR2(4000)

col COMMENTS for a50

SQL> select \* from user\_tab\_comments;

|  |  |  |
| --- | --- | --- |
| **TABLE\_NAME** | **TABLE\_TYPE** | **COMMENTS** |
| BACKORDER | TABLE |  |
| BRANCH | TABLE |  |
| BROADCAST | TABLE |  |
| COURSE | TABLE |  |
| CUSTOMER | TABLE |  |
| CUSTORDERFORM | VIEW |  |
| EMPLOYEE | TABLE |  |

**USER\_TAB\_PRIVS**

Grants on objects for which the user is the owner, grantor or grantee

Name Null? Type

----------------------------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

col GRANTEE for a10

col OWNER for a10

col TABLE\_NAME for a10

col GRANTOR for a10

col PRIVILEGE for a10

SQL> select \* from user\_tab\_privs;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **GRANTEE** | **OWNER** | **TABLE\_NAME** | **GRANTOR** | **PRIVILEGE** | **GRA** | **HIE** |
| PUBLIC | OES | PLAYER | OES | SELECT | NO | NO |
| PUBLIC | OES | COURSE | OES | SELECT | NO | NO |
| PUBLIC | OES | INTEREST | OES | SELECT | NO | NO |
| PUBLIC | OES | EVENT | OES | SELECT | NO | NO |
| PUBLIC | OES | TOURNAMENT | OES | SELECT | NO | NO |
| PUBLIC | OES | BROADCAST | OES | SELECT | NO | NO |
| PUBLIC | OES | TAX | OES | SELECT | NO | NO |
| PUBLIC | OES | PRODVENDOR | OES | SELECT | NO | NO |

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**USER\_TAB\_PRIVS\_MADE**

All grants on objects owned by the user

Name Null? Type

----------------------------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from user\_tab\_privs\_made;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **GRANTEE** | **TABLE\_NAME** | **GRANTOR** | **PRIVILEGE** | **GRA** | **HIE** |
| PUBLIC | BACKORDER | OES | SELECT | NO | NO |
| PUBLIC | BRANCH | OES | SELECT | NO | NO |
| PUBLIC | BROADCAST | OES | SELECT | NO | NO |
| PUBLIC | COURSE | OES | SELECT | NO | NO |
| PUBLIC | CUSTOMER | OES | SELECT | NO | NO |
| PUBLIC | EMPLOYEE | OES | SELECT | NO | NO |
| PUBLIC | EVENT | OES | SELECT | NO | NO |

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**USER\_TAB\_PRIVS\_RECD**

Grants on objects for which the user is the grantee

Name Null? Type

----------------------------- -------- --------------------

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from user\_tab\_privs\_recd;

OWNER TABLE\_NAME GRANTOR PRIVILEGE GRA

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PROP VIEWING PROP UPDATE NO

**USER\_TRIGGERS**

Triggers owned by the user

Name Null? Type

----------------------------- -------- --------------------

TRIGGER\_NAME VARCHAR2(30)

TRIGGER\_TYPE VARCHAR2(16)

TRIGGERING\_EVENT VARCHAR2(216)

TABLE\_OWNER VARCHAR2(30)

BASE\_OBJECT\_TYPE VARCHAR2(16)

TABLE\_NAME VARCHAR2(30)

COLUMN\_NAME VARCHAR2(4000)

REFERENCING\_NAMES VARCHAR2(128)

WHEN\_CLAUSE VARCHAR2(4000)

STATUS VARCHAR2(8)

DESCRIPTION VARCHAR2(4000)

ACTION\_TYPE VARCHAR2(11)

TRIGGER\_BODY LONG

SQL> select \* from user\_triggers;

no rows selected

**USER\_TRIGGER\_COLS**

Column usage in user's triggers

Name Null? Type

----------------------------- -------- --------------------

TRIGGER\_OWNER VARCHAR2(30)

TRIGGER\_NAME VARCHAR2(30)

TABLE\_OWNER VARCHAR2(30)

TABLE\_NAME VARCHAR2(30)

COLUMN\_NAME VARCHAR2(4000)

COLUMN\_LIST VARCHAR2(3)

COLUMN\_USAGE VARCHAR2(17)

SQL> select \* from user\_trigger\_cols;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TRIGGER\_OWNER** | **TRIGGER\_NAME** | **TABLE\_OWNER** | **TABLE\_NAME** | **COLUMN\_NAME** | **COL** | **COLUMN\_USAGE** |
| OES | TRIG\_VEMP\_DELETE | OES | V\_EMP | BRANCH\_NO | NO | NONE |
| OES | TRIG\_VEMP\_DELETE | OES | V\_EMP | EMPLOYEE\_NO | NO | NONE |
| OES | TRIG\_VEMP\_UPDATE | OES | V\_EMP | DOB | NO | NEW IN |
| OES | TRIG\_VEMP\_UPDATE | OES | V\_EMP | CITY | NO | NEW IN |
| OES | TRIG\_VEMP\_UPDATE | OES | V\_EMP | LNAME | NO | NEW IN |
| OES | TRIG\_VEMP\_UPDATE | OES | V\_EMP | STATE | NO | NEW IN |
| OES | TRIG\_VEMP\_UPDATE | OES | V\_EMP | BRANCH\_NO | NO | NEW IN |
| OES | TRIG\_VEMP\_UPDAT | OES | V\_EMP | EMPLOYEE\_NO | NO | NEW IN |

**USER\_TS\_QUOTAS**

Tablespace quotas for the user

Name Null? Type

---------------------------- -------- --------------------

TABLESPACE\_NAME NOT NULL VARCHAR2(30)

BYTES NUMBER

MAX\_BYTES NUMBER

BLOCKS NOT NULL NUMBER

MAX\_BLOCKS NUMBER

SQL> select \* from user\_ts\_quotas;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLESPACE\_NAME** | **BYTES** | **MAX\_BYTES** | **BLOCKS** | **MAX\_BLOCKS** |
| USERS | 3014656 | 0 | 368 | 0 |

**USER\_USERS**

Information about the current user

Name Null? Type

----------------------------- -------- ------

USERNAME NOT NULL VARCHAR2(30)

USER\_ID NOT NULL NUMBER

ACCOUNT\_STATUS NOT NULL VARCHAR2(32)

LOCK\_DATE DATE

EXPIRY\_DATE DATE

DEFAULT\_TABLESPACE NOT NULL VARCHAR2(30)

TEMPORARY\_TABLESPACE NOT NULL VARCHAR2(30)

CREATED NOT NULL DATE

INITIAL\_RSRC\_CONSUMER\_GROUP VARCHAR2(30)

EXTERNAL\_NAME VARCHAR2(4000)

col USERNAME for a10

col ACCOUNT\_STATUS for a10

col DEFAULT\_TABLESPACE for a10

col TEMPORARY\_TABLESPACE for a10

SQL> select username, user\_id, account\_status,default\_tablespace, temporary\_tablespace, created

from user\_users;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **USERNAME** | **USER\_ID** | **ACCOUNT\_STATUS** | **DEFAULT\_TABLESPACE** | **TEMPORARY\_TABLESPACE** | **CREATED** |
| OES | 102 | OPEN | USERS | TEMP | 29-JUN-04 |

**USER\_VIEWS**

Description of the user's own views

Name Null? Type

----------------------------- -------- --------------------

VIEW\_NAME NOT NULL VARCHAR2(30)

TEXT\_LENGTH NUMBER

TEXT LONG

TYPE\_TEXT\_LENGTH NUMBER

TYPE\_TEXT VARCHAR2(4000)

OID\_TEXT\_LENGTH NUMBER

OID\_TEXT VARCHAR2(4000)

VIEW\_TYPE\_OWNER VARCHAR2(30)

VIEW\_TYPE VARCHAR2(30)

SQL> select view\_name, text

from user\_views;

|  |  |
| --- | --- |
| **VIEW\_NAME** | **TEXT** |
| CUSTORDERFORM | SELECT c.customer\_no, c.lname, c.fname, c.street, c.city, c.state, c.zip, c.tel\_ |
| V\_EMP | SELECT employee\_no, lname, dob, b.branch\_no, b.city, b.state FROM employee e, b |
| V\_PRODUCT | SELECT "PRODUCT\_NO","BRAND","CLASS","PRODUCT\_DESCRIPTION","UNIT\_PRICE","UNIT\_COS |
| V\_TOP7CUSTOMER | SELECT lname, fname, tel\_no, state, revenue FROM( SELECT lname, fname, tel\_no, s |

**COLUMN\_PRIVILEGES**

Grants on columns for which the user is the grantor, grantee, owner, or an enabled role or PUBLIC is the grantee

Name Null? Type

----------------------------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

INSERT\_PRIV VARCHAR2(1)

UPDATE\_PRIV VARCHAR2(1)

REFERENCES\_PRIV VARCHAR2(1)

CREATED VARCHAR2(0)

SQL> select \* from column\_privileges;

no rows selected

**DICTIONARY**

Description of data dictionary tables and views

Name Null? Type

---------------------------- -------- ------

TABLE\_NAME VARCHAR2(30)

COMMENTS VARCHAR2(4000)

SQL> select \* from dictionary;

|  |  |
| --- | --- |
| **TABLE\_NAME** | **COMMENTS** |
| ALL\_ALL\_TABLES | Description of all object and relational tables accessible to the user |
| ALL\_APPLY | Details about each apply process that dequeues from the queue visible to the current user |
| ALL\_APPLY\_CONFLICT\_COLUMNS | Details about conflict resolution on tables visible to the current user |
| ALL\_APPLY\_DML\_HANDLERS | Details about the dml handler on tables visible to the current user |
| ALL\_APPLY\_ERROR | Error transactions that were generated after dequeuing from the queue visible to the current user |
| ALL\_APPLY\_KEY\_COLUMNS | Alternative key columns for a STREAMS table visible to the current user |
| ALL\_APPLY\_PARAMETERS | Details about parameters of each apply process that dequeues from the queue visible to the current user |

…

**DICT\_COLUMNS**

Description of columns in data dictionary tables and views

Name Null? Type

----------------------------- -------- --------------------

TABLE\_NAME VARCHAR2(30)

COLUMN\_NAME VARCHAR2(30)

COMMENTS VARCHAR2(4000)SQL> select \* from dict\_columns;

|  |  |  |
| --- | --- | --- |
| **TABLE\_NAME** | **COLUMN\_NAME** | **COMMENTS** |
| ALL\_ALL\_TABLES | TABLESPACE\_NAME | Name of the tablespace containing the table |
| ALL\_ALL\_TABLES | CLUSTER\_NAME | Name of the cluster, if any, to which the table belongs |
| ALL\_ALL\_TABLES | IOT\_NAME | Name of the index-only table, if any, to which the overflow or mapping table entry belongs |
| ALL\_ALL\_TABLES | PCT\_FREE | Minimum percentage of free space in a block |
| ALL\_ALL\_TABLES | PCT\_USED | Minimum percentage of used space in a block |
| ALL\_ALL\_TABLES | INI\_TRANS | Initial number of transactions |
| ALL\_ALL\_TABLES | MAX\_TRANS | Maximum number of transactions |
| ALL\_ALL\_TABLES | INITIAL\_EXTENT | Size of the initial extent in bytes |

…

**ROLE\_ROLE\_PRIVS**

Roles which are granted to roles

Name Null? Type

----------------------------- -------- --------------------

ROLE NOT NULL VARCHAR2(30)

GRANTED\_ROLE NOT NULL VARCHAR2(30)

ADMIN\_OPTION VARCHAR2(3)

SQL> select \* from role\_role\_privs;

no rows selected.

**ROLE\_SYS\_PRIVS**

System privileges granted to roles

Name Null? Type

----------------------------- -------- --------------------

ROLE NOT NULL VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

ADMIN\_OPTION VARCHAR2(3)

SQL> select \* from role\_sys\_privs;

|  |  |  |
| --- | --- | --- |
| **ROLE** | **PRIVILEGE** | **ADM** |
| CONNECT | CREATE VIEW | NO |
| CONNECT | CREATE TABLE | NO |
| CONNECT | ALTER SESSION | NO |
| CONNECT | CREATE CLUSTER | NO |
| CONNECT | CREATE SESSION | NO |
| CONNECT | CREATE SYNONYM | NO |
| CONNECT | CREATE SEQUENCE | NO |
| CONNECT | CREATE DATABASE LINK | NO |

**ROLE\_TAB\_PRIVS**

Table privileges granted to roles

Name Null? Type

----------------------------- -------- --------------------

ROLE NOT NULL VARCHAR2(30)

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

COLUMN\_NAME VARCHAR2(30)

PRIVILEGE NOT NULL VARCHAR2(40)

GRANTABLE VARCHAR2(3)

SQL> select \* from role\_tab\_privs;

ROLE OWNER TABLE\_NAME COLUMN PRIVILEGE GRA

------------ ----- ------------- ------ ---------- ---

PROP\_SELECT PROP BRANCH SELECT NO

PROP\_SELECT PROP CLIENT SELECT NO

PROP\_SELECT PROP LEASE SELECT NO

PROP\_SELECT PROP PRIVATE\_OWNER SELECT NO

PROP\_SELECT PROP REGISTRATION SELECT NO

PROP\_SELECT PROP STAFF SELECT NO

PROP\_SELECT PROP VIEWING SELECT NO

**SESSION\_PRIVS**

Privileges which the user currently has set

Name Null? Type

----------------------------- -------- --------------------

PRIVILEGE NOT NULL VARCHAR2(40)

SQL> select \* from session\_privs;

|  |
| --- |
| **PRIVILEGE** |
| CREATE SESSION |
| ALTER SESSION |
| UNLIMITED TABLESPACE |
| CREATE TABLE |
| CREATE CLUSTER |
| CREATE SYNONYM |
| CREATE VIEW |
| CREATE SEQUENCE |
| CREATE DATABASE LINK |
| CREATE PROCEDURE |
| CREATE TRIGGER |

**SESSION\_ROLES**

Roles which the user currently has enabled

Name Null? Type

----------------------------- -------- --------------------

ROLE NOT NULL VARCHAR2(30)

SQL> select \* from session\_roles;

|  |
| --- |
| **ROLE** |
| CONNECT |

**TABLE\_PRIVILEGES**

Grants on objects for which the user is the grantor, grantee, owner, or an enabled role or PUBLIC is the grantee.

Name Null? Type

----------------------------- -------- --------------------

GRANTEE NOT NULL VARCHAR2(30)

OWNER NOT NULL VARCHAR2(30)

TABLE\_NAME NOT NULL VARCHAR2(30)

GRANTOR NOT NULL VARCHAR2(30)

SELECT\_PRIV VARCHAR2(1)

INSERT\_PRIV VARCHAR2(1)

DELETE\_PRIV VARCHAR2(1)

UPDATE\_PRIV VARCHAR2(1)

REFERENCES\_PRIV VARCHAR2(1)

ALTER\_PRIV VARCHAR2(1)

INDEX\_PRIV VARCHAR2(1)

CREATED VARCHAR2(0)

SQL> select \* from table\_privileges;

GRANTEE OWNER TABLE\_NAME GRANTOR S I D U R A I C

---------- ----- ------------- ---------- - - - - - - - -

PUBLIC ASLAM SMP\_BLOB ASLAM-U3EP Y A Y A N N N

PUBLIC ASLAM SMP\_LONG\_ID ASLAM-U3EP Y N N N N N N

PUBLIC ASLAM SMP\_LONG\_TEXT ASLAM-U3EP Y A Y A N N N

…

These are views with “ALL” instead of “USER” at the start.

The difference is: “USER” gives information for the objects, which are only in the user’s schema, whereas “ALL” gives information for those objects too which are in other users’ schemas and have been granted privileges to access those objects by other users.

1. ALL\_CATALOG

2. ALL\_COL\_COMMENTS

3. ALL\_COL\_PRIVS

4. ALL\_COL\_PRIVS\_MADE

5. ALL\_COL\_PRIVS\_RECD

6. ALL\_CONS\_COLUMNS

7. ALL\_CONSTRAINTS

8. ALL\_DEPENDENCIES

9. ALL\_IND\_COLUMNS

10. ALL\_INDEXES

11. ALL\_INTERNAL\_TRIGGERS

12. ALL\_OBJECTS

13. ALL\_ROLE\_PRIVS

14. ALL\_SEQUENCES

15. ALL\_SOURCE

16. ALL\_SYNONYMS

17. ALL\_SYS\_PRIVS

18. ALL\_TAB\_COLUMNS or COLS

19. ALL\_TAB\_COMMENTS

20. ALL\_TAB\_PRIVS

21. ALL\_TAB\_PRIVS\_MADE

22. ALL\_TAB\_PRIVS\_RECD

23. ALL\_TABLES or TABS

24. ALL\_TABLESPACES

25. ALL\_TRIGGER\_COLS

26. ALL\_TRIGGERS

27. ALL\_TS\_QUOTAS

28. ALL\_ALLS

29. ALL\_VIEWS