FORUMS   DOCUMENTS   MEMBERSHIPS   MEMBERS   LOG IN OR SIGN UP

🏠 Forums › Oracle Database › SQL PL/SQL

View all table structure in schema

---

professional
Active Member

Messages:	31
Likes Received:	0
Trophy Points:	80

Hello everyone, hope things are great here. Actually i was trying to do something and couldn't figure out any easy way. I want to view all table structure in a schema at once. Is there any simple way of doing this? other than writng a cursor and looping through all_tables and all_tab_columns?

professional, Dec 1, 2008   #1

---

rajavu
Forum Guru

Messages:	853
Likes Received:	53
Trophy Points:	610
Location:	@ Bangalore , India

I am not pretty sure about your requirement.

whatever you do with the cursor for getting the table structure can be achieved through one straight SQL from the same table you meantioned.

Code (Text):

```
SELECT atc.TABLE_NAME,
       atc.COLUMN_NAME,
       atc.DATA_TYPE
FROM  ALL_TAB_COLUMNS atc
```

But this will give the table names from the the entire Database where the current schema exists. So it should be restricted to current user as .

Code (Text):

```
SELECT atc.TABLE_NAME,
       atc.COLUMN_NAME,
       atc.DATA_TYPE
FROM  ALL_TAB_COLUMNS atc
WHERE atc.OWNER = USER;
```

Otherwise you can use USER_TAB_COLUMNS to achieve the same result.

Code (Text):

```
SELECT utc.TABLE_NAME,
       utc.COLUMN_NAME,
       utc.DATA_TYPE
FROM  USER_TAB_COLUMNS utc
```

Here is an example to show the EMP table structure.

Code (Text):

```
SQL> SELECT utc.TABLE_NAME ,
  2          utc.COLUMN_NAME ,
  3          utc.DATA_TYPE
  4  FROM  USER_TAB_COLUMNS utc
  5  WHERE utc.TABLE_NAME ='EMP';

TABLE_NAME           COLUMN_NAME          DATA_TYPE
-------------------  -------------------- --------------------
EMP                  EMPNO                NUMBER
EMP                  ENAME                VARCHAR2
EMP                  JOB                  VARCHAR2
EMP                  MGR                  NUMBER
EMP                  HIREDATE             DATE
EMP                  SAL                  NUMBER
EMP                  COMM                 NUMBER
EMP                  DEPTNO               NUMBER

8 rows selected.

SQL>
```

rajavu, Dec 2, 2008 #2

rajavu

Forum Guru

Messages:	853
Likes Received:	53
Trophy Points:	610
Location: @ Bangalore , India	

Or this can be spooled as formatted report from SQL*PLUS as below.
Example is given only for standard Data types (VARCHAR2 , NUMBER and DATE)

Code (Text):

```
SQL> break on TABLE_NAME
SQL> SELECT utc.TABLE_NAME ,
  2         utc.COLUMN_NAME ,
  3         utc.DATA_TYPE   ,
  4       CASE DATA_TYPE
  5       WHEN 'VARCHAR2' THEN '('||DATA_LENGTH||')'
  6       WHEN 'NUMBER' THEN  CASE
  7                     WHEN DATA_PRECISION IS NOT NULL
  8                     THEN  '('||DATA_PRECISION||CASE
  9                                          WHEN DATA_SCALE <>0
 10                                          THEN ','||DATA_SCALE END
 11                     END||CASE WHEN DATA_PRECISION IS NOT NULL
 12                           THEN ')' END
 13       END DATA_LENGTH
 14  FROM  USER_TAB_COLUMNS utc
 15  WHERE utc.TABLE_NAME IN ('EMP','DEPT','TEST');

TABLE_NAME           COLUMN_NAME          DATA_TYPE            DATA_LENGTH
-------------------- -------------------- -------------------- ---------------
DEPT                 DEPTNO               NUMBER               (2)
                     DNAME                VARCHAR2             (14)
                     LOC                  VARCHAR2             (13)
EMP                  EMPNO                NUMBER               (4)
                     ENAME                VARCHAR2             (10)
                     JOB                  VARCHAR2             (9)
                     MGR                  NUMBER               (4)
                     HIREDATE             DATE
                     SAL                  NUMBER               (7,2)
                     COMM                 NUMBER               (7,2)
                     DEPTNO               NUMBER               (2)
TEST                 ACCOUNT              NUMBER
```

rajavu, Dec 2, 2008 #3

professional

Active Member

Messages:	31
Likes Received:	0
Trophy Points:	80

hi rajavu, thanks bro you solved the problem. Basically I wanted to see the table structures for all tables in a given schema. I used your last query and expanded it for many data types and it works just fine.

professional, Dec 2, 2008   #4

---

rajavu

Forum Guru

Messages:	853
Likes Received:	53
Trophy Points:	610
Location:	@ Bangalore , India

By the way ,

There is One more way for doing the same by using the package dbms_metadata. dbms_metadata.get_ddl wil do the trick.

Its general syntax is :

> *dbms_metadata.get_ddl(*
> *object_type IN VARCHAR2,*
> *name IN VARCHAR2,*
> *schema IN VARCHAR2 DEFAULT NULL,*
> *version IN VARCHAR2 DEFAULT 'COMPATIBLE',*
> *model IN VARCHAR2 DEFAULT 'ORACLE',*
> *transform IN VARCHAR2 DEFAULT 'DDL')*
> *RETURN CLOB;*

Example:

Code (Text):

```
SQL> SELECTDBMS_METADATA.GET_DDL
  2          ( 'TABLE', 'EMP','SCOTT') DDL
  3     FROM DUAL;


  CREATE TABLE "SCOTT"."EMP"
   (    "EMPNO" NUMBER(4,0),
        "ENAME" VARCHAR2(10),
        "JOB" VARCHAR2(9),
        "MGR" NUMBER(4,0),
        "HIREDATE" DATE,
        "SAL" NUMBER(7,2),
        "COMM" NUMBER(7,2),
        "DEPTNO" NUMBER(2,0),
         CONSTRAINT "PK_EMP" PRIMARY KEY ("EMPNO")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT)
```

```
TABLESPACE  USERS    ENABLE,
        CONSTRAINT "FK_DEPTNO" FOREIGN KEY ("DEPTNO")
         REFERENCES "SCOTT"."DEPT" ("DEPTNO") ENABLE
 ) PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT)
  TABLESPACE "USERS"



SQL>
```

rajavu, Dec 11, 2008   #5

---

rajavu

Forum Guru

Messages:	853
Likes Received:	53
Trophy Points:	610
Location: @ Bangalore , India	

By the way , I also came across almost the same issue. The following link was more useful , though it resembles previous solution.

rajavu, Dec 12, 2008   #6

---

rajavu

Forum Guru

Messages:	853
Likes Received:	53
Trophy Points:	610
Location: @ Bangalore , India	

To be precise , you can control the Tablespace , storage , constraints etc using the DBMS_METADATA.SET_TRANSFORM_PARAM . This is used for controlling the sesion attributes for the DBMS_METADATA package. This is the same thing used in the Third part tools.

See the example below

Code (Text):

```
SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'PRETTY', TRU

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'SQLTERMINAT(

PL/SQL procedure successfully completed.
```

```
SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'SEGMENT_ATTF

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'STORAGE', F/

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'TABLESPACE',

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'CONSTRAINTS'

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'REF_CONSTRAI

PL/SQL procedure successfully completed.

SQL> EXEC dbms_metadata.set_transform_param(dbms_metadata.session_transform, 'CONSTRAINTS_
```

rajavu, Dec 17, 2008   #7

(You must log in or sign up to reply here.)

Sign up now!

💬 Latest Topics

How to print qr code in xml...

ssankars posted Yesterday at 5:17 PM

Command to find which servers...
ORACLE Certified expert posted Saturday at 1:25 PM

Can not find database instances...
alexcol posted Feb 25, 2019

Po position hierarchy approval...
Ravi Dhote posted Feb 23, 2019

Problem in eam self service vision
mkandil posted Feb 22, 2019

Error in invoice validation...
tomloera posted Feb 20, 2019

How can i allow this procedure...
Mzwanele Ngubane posted Feb 20, 2019

Update table column based on...
jhonnyrip posted Feb 16, 2019

Oracle fusion financials...
shaik posted Feb 16, 2019

Date format issue
Durbslaw posted Feb 13, 2019

Latest Documents

BO FA Universe
Komagain posted Wednesday at 1:17 PM

ERP Test Suite Template
Mahendran Samynathan posted Wednesday at 11:30 AM

Reporting Currency
ajay bajpai posted Feb 26, 2019

MASS Allocation
Sivalinga balan posted Feb 26, 2019

Peformance and Goals Test Scripts
Paul Marsh posted Feb 25, 2019

🏠 Forums > Oracle Database > SQL PL/SQL   ☰

Contact Us   Help

Forum software by XenForo™ ©2010-2017 XenForo Ltd.   Terms and Rules   Style by Arty