

```

create or replace package pack1
is
    function fun1(no number) return number;
    procedure proc1(no number);
    procedure proc2(no number);
    pi number:=3.14;
end;
/

-----
create or replace package body pack1
is
    function fun1(no number) return number is
        sq number;
    begin
        sq:=no*no;
        return sq;
    end fun1;

    procedure proc1(no number)
    is
        cube number;
    begin
        cube:=no*no*no;
        dbms_output.put_line('Cube is ' || cube);
        dbms_output.put_line('Value of pi is ' || pi);
    end proc1;

    procedure proc2(no number)
    is
        cube number;
    begin
        cube:=no*no*no;
        dbms_output.put_line('Cube is ' || cube);
        dbms_output.put_line('Value of pi is ' || pi);
    end proc2;
end pack1;
/
-----
```

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```

SQL> conect prince/sagar;
SP2-0734: unknown command beginning "conect pri..." - rest of line ignored.
SQL> conect prince/sagar
SP2-0734: unknown command beginning "conect pri..." - rest of line ignored.
SQL> connect prince/sagar
Connected.
SQL> ed c:/oracle/pack1.sql
```

```
SQL> @ c:/oracle/pack1.sql
Package created.

SQL> ed c:/oracle/pack1.sql
SQL> ed c:/oracle/pack1.sql
SQL> select fun1(3) from dual;
      FUN1(3)
-----
      9

SQL> ed c:/oracle/pack1.sql
SQL> select fun1(5) from dual;
      FUN1(5)
-----
      25

SQL> exec proc1(5);
BEGIN proc1(5); END;

*
ERROR at line 1:
ORA-06550: line 1, column 7:
PLS-00201: identifier 'PROC1' must be declared
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored

SQL> ed c:/oracle/pack1.sql
SQL> exec proc1(5);
BEGIN proc1(5); END;

*
ERROR at line 1:
ORA-06550: line 1, column 7:
PLS-00201: identifier 'PROC1' must be declared
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored

SQL> ed c:/oracle/pack1.sql
SQL> ed c:/oracle/pack2.sql
```

```
SQL> @ c:/oracle/pack2.sql
19  //
20
21 ;
22 /  
  
Warning: Package Body created with compilation errors.  
  
SQL> ed c:/oracle/pack2.sql  
  
SQL> @ c:/oracle/pack2.sql  
  
Package body created.  
  
SQL> select pack1.fun1(6) from dual;  
  
PACK1.FUN1(6)  
-----  
      36  
  
SQL> select pack1.proc(6) from dual;  
select pack1.proc(6) from dual  
      *  
ERROR at line 1:  
ORA-00904: "PACK1"."PROC": invalid identifier  
  
SQL> select pack1.proc1(6) from dual;  
select pack1.proc1(6) from dual  
      *  
ERROR at line 1:  
ORA-00904: "PACK1"."PROC1": invalid identifier  
  
SQL> exec pack1.proc1(5);  
  
PL/SQL procedure successfully completed.  
  
SQL> set serveroutput on  
SQL> exec pack1.proc1(5);  
Cube is 125  
  
PL/SQL procedure successfully completed.  
  
SQL> ed c:/oracle/pack1.sql  
  
SQL> ed c:/oracle/pack2.sql  
  
SQL> ed c:/oracle/pack1.sql
```

```
SQL> @ c:/oracle/pack1.sql
Package created.

SQL> ed c:/oracle/pack1.sql
SQL> ed c:/oracle/pack2.sql
SQL> @ c:/oracle/pack2.sql
Package body created.

SQL> select pack1.fun1(5) from dual;
PACK1.FUN1(5)
-----
28.14

SQL> exec pack1.proc1(3);
Cube is 27
Value of pi is 3.14

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/pack2.sql
SQL> ed c:/oracle/pack2.sql
SQL> @ c:/oracle/pack2.sql
Package body created.

SQL> exec pack1.proc2(6);
BEGIN pack1.proc2(6); END;

*
ERROR at line 1:
ORA-06550: line 1, column 13:
PLS-00302: component 'PROC2' must be declared
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored

SQL> ed c:/oracle/pack1.sql
SQL> @ c:/oracle/pack1.sql
Package created.
```

```
SQL> exec pack1.proc2(6);
Cube is 216
Value of pi is 3.14

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/pack2.sql

SQL> select round(10.6) from dual;

ROUND(10.6)
-----
11

SQL> select round(10.2) from dual;

ROUND(10.2)
-----
10

SQL> select trunc(10.2) from dual;

TRUNC(10.2)
-----
10

SQL> select floor(10.2) from dual;

FLOOR(10.2)
-----
10

SQL> select ceil(10.2) from dual;

CEIL(10.2)
-----
11

SQL> select abs(-2) from dual;

ABS(-2)
-----
2

SQL> select sqr(2) from dual;
select sqr(2) from dual
*
ERROR at line 1:
ORA-00904: "SQR": invalid identifier
```

```
SQL> select square(2) from dual;
select square(2) from dual
*
ERROR at line 1:
ORA-00904: "SQUARE": invalid identifier
```

```
SQL> select sqrt(9) from dual;
```

```
SQRT(9)
```

```
-----  
3
```

```
SQL> ed c:/oracle/pack2.sql
```

```
SQL> select round(10.5) from dual;
```

```
ROUND(10.5)
```

```
-----  
11
```

```
SQL> select mod(10,2) from dual;
```

```
MOD(10,2)
```

```
-----  
0
```

```
SQL> select power(5,2) from dual;
```

```
POWER(5,2)
```

```
-----  
25
```

```
SQL> select * from customers;
```

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

```
10 rows selected.
```

```
SQL> select nvl(contact,0) from customers;
```

```
NVL(CONTACT,0)
```

```
-----  
9983  
8832  
0  
0  
0  
0  
0  
0  
0  
0  
3394
```

```
10 rows selected.
```

```
SQL> select * from customers;
```

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

```
10 rows selected.
```

```
SQL> select cno,cname,nvl(contact,'-') from customers;
```

```
select cno,cname,nvl(contact,'-') from customers
```

```
*
```

```
ERROR at line 1:
```

```
ORA-01722: invalid number
```

```
SQL> select cno,cname,nvl(contact,0) from customers;
```

CNO	CNAME	NVL(CONTACT,0)
1	Ravi	9983
2	Sumit	8832
3	Ajay	0
4	Vijay	0

5	Sanjay	0
6	Gourav	0
7	Sourav	0
8	Raja	0
9	Rani	0
10	Gaurav	3394

10 rows selected.

SQL> select sign(3) from dual;

SIGN(3)

1

SQL> select sign(-3) from dual;

SIGN(-3)

-1

SQL> select sign(0) from dual;

SIGN(0)

0

SQL> select * from customers;

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

SQL> select decode(city,'Sagar','BK','Indpre','Malwa','Bhopal','Capital')
2 from customers;

DECODE(

```
BK  
BK
```

```
BK  
BK  
Capital  
Capital
```

```
10 rows selected.
```

```
SQL> select city,decode(city,'Sagar','BK','Indore','Malwa','Bhopal','Capital')  
2 ;  
  
*  
ERROR at line 2:  
ORA-00923: FROM keyword not found where expected
```

```
SQL> select city,decode(city,'Sagar','BK','Indore','Malwa','Bhopal','Capital') from  
2 customers;
```

CITY	DECODE(
-----	-----
Indore	
Sagar	BK
Sagar	BK
Indore	
Indore	
Sagar	BK
Sagar	BK
Bhopal	Capital
Bhopal	Capital
Gwalior	

```
10 rows selected.
```

```
SQL> select city,decode(city,'Sagar','BK','Indore','Malwa','Bhopal','Capital') from  
2 customers;
```

CITY	DECODE(
-----	-----
Indore	Malwa
Sagar	BK
Sagar	BK
Indore	Malwa
Indore	Malwa
Sagar	BK
Sagar	BK

```
Bhopal      Capital  
Bhopal      Capital  
Gwalior
```

10 rows selected.

```
SQL> select  
city,decode(city,'Sagar','BK','Indore','Malwa','Bhopal','Capital','Others') from  
2 customers;  
ERROR:  
ORA-01756: quoted string not properly terminated
```

```
SQL> select  
city,decode(city,'Sagar','BK','Indore','Malwa','Bhopal','Capital','Others') from  
2 customers;
```

CITY	DECODE(
Indore	Malwa
Sagar	BK
Sagar	BK
Indore	Malwa
Indore	Malwa
Sagar	BK
Sagar	BK
Bhopal	Capital
Bhopal	Capital
Gwalior	Others

10 rows selected.

```
SQL> select * from customers;
```

CNO	CNAME	AMOUNT	DOJ	CONTACT	DEPT	CITY
1	Ravi	495	10-APR-20	9983	10	Indore
2	Sumit	715	13-APR-20	8832	20	Sagar
3	Ajay	165	30-SEP-22		10	Sagar
4	Vijay	935	15-FEB-23		30	Indore
5	Sanjay	385	10-APR-20		10	Indore
6	Gourav	55	03-NOV-25		20	Sagar
7	Sourav	120	06-NOV-25		10	Sagar
8	Raja	230	04-OCT-25		20	Bhopal
9	Rani	260	16-MAY-23		30	Bhopal
10	Gaurav	300	15-NOV-25	3394	40	Gwalior

10 rows selected.

```
SQL> select user from dual;
```

```
USER
```

```
-----  
PRINCE
```

```
SQL> select uid from dual;
```

```
UID
```

```
-----  
54
```

```
SQL> desc dba_users;
```

```
ERROR:
```

```
ORA-04043: object "SYS"."DBA_USERS" does not exist
```

```
SQL> desc users;
```

```
ERROR:
```

```
ORA-04043: object users does not exist
```

```
SQL> desc dba_all_users;
```

```
ERROR:
```

```
ORA-04043: object dba_all_users does not exist
```

```
SQL> connect
```

```
Enter user-name: system
```

```
Enter password:
```

```
Connected.
```

```
SQL> desc dba_users;
```

Name	Null?	Type
USERNAME	NOT NULL	VARCHAR2(30)
USER_ID	NOT NULL	NUMBER
PASSWORD		VARCHAR2(30)
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
PROFILE	NOT NULL	VARCHAR2(30)
INITIAL_RSRC_CONSUMER_GROUP		VARCHAR2(30)
EXTERNAL_NAME		VARCHAR2(4000)

```
SQL> select username,user_id,password from dba_users;
```

USERNAME	USER_ID	PASSWORD
----------	---------	----------

GOURANG	38	C8401E7B3C9EF6A1
NEWUSER	58	333FE126FA0EB14C
ABC	48	775EB63B6DCB2D97
ROBOT	44	220EBE18A2E08372
DEV	53	3EBEBA6B716F6794
OM	55	BD6554E1F1A5D5A9
KUNAL	41	BFD3CD3727049C03
ASHWIN	46	2095F2800A072B6B
SOHAN	37	ED2DB0A62975D108
RADHIKA	40	2C8B1CC538864554
HMS	45	EE463229A4B7641F

USERNAME	USER_ID	PASSWORD
RAVI	39	46E16C122BF65A5A
ADITYA	52	F6053806827514CF
USER1	36	634C8FA070F05974
PRINCE	54	CD30671C746F390B
MINI	47	8529618085CA1890
SYS	0	5638228DAF52805F
SYSTEM	5	D4DF7931AB130E37
ANONYMOUS	28	anonymous
MDSYS	32	72979A94BAD2AF80
TSMSYS	20	3DF26A8B17D0F29F
OUTLN	11	4A3BA55E08595C81

USERNAME	USER_ID	PASSWORD
DIP	18	CE4A36B8E06CA59C
FLOWs_FILES	34	364B78B9EABB9E56
DBSNMP	23	E066D214D5421CCC
CTXSYS	25	D1D21CA56994CAB6
FLOWs_020100	35	16E4C012E98710D0
XDB	27	E76A6BD999EF9FF1
HR	33	4C6D73C3E8B0F0DA

29 rows selected.

SQL>