

```

create or replace function fun4(dno number) return varchar
is
    dt date;
    nm varchar(10);
begin
    select cname into nm from customers where doj=all(select min(doj) from
customers where dept=dno) and rownum=1 and dept=dno;
    return nm;
end;
/
-----
create or replace function fun2(cid number,yrs number) return date
is
    retdate date;
begin
    select add_months(doj,12*yrs) into retdate from customers where cno=cid;
    return retdate;
end;
/
-----
create or replace function fun1(a number) return number
is
    sq number;
begin
    sq:=a*a;
    return sq;
end;
/
-----
declare
    res number;
begin
    res:=fun1(7);
    dbms_output.put_line(res);
end;
/
-----
create or replace function fun4(dno number) return varchar
is
    dt date;
    nm varchar(10);
begin
    select cname into nm from customers where doj=all(select min(doj) from
customers where dept=dno) and rownum=1 and dept=dno;
    return nm;
end;
/

```

```
create or replace function fun3(cid number) return number
is
    retdate date;
    days number;
begin
    select add_months(doj,120) into retdate from customers where cno=cid;
    select retdate-doj into days from customers where cno=cid;
    return days;
end;
/
```

=====
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```
SQL> connect
Enter user-name: prince
Enter password:
Connected.
SQL> set serveroutput on
SQL> ed c:/oracle/fun1.sql
```

```
SQL> @ c:/oracle/fun1.sql
```

Function created.

```
SQL> ed c:/oracle/fun1.sql
```

```
SQL> ed c:/oracle/fun1.sql
```

```
SQL> select fun1(6) from dual;
```

FUN1(6)

36

```
SQL> ed c:/oracle/fun1call.sql
```

```
SQL> @ c:/oracle/fun1call.sql  
49
```

PL/SQL procedure successfully completed.

```
SQL> ed c:/oracle/fun1call.sql
```

```
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> ed c:/oracle/fun1.sql

SQL> select fun1(4) from dual;

FUN1(4)

16

SQL> desc dual;

Name	Null?	Type
DUMMY		VARCHAR2(1)

SQL> select fun1(4) from customers;

FUN1(4)

16
16
16
16
16
16
16
16
16
16

10 rows selected.

SQL> select fun1(4) from dual;

FUN1(4)

16

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 * from trains;

TNO	NAME	SOURCE	DESTINATIO
1001	A Exp.	Delhi	Mumbai
1002	B Exp.	Delhi	Hyderabad
1003	C Exp.	Indore	Pune

SQL> select * from football;

TCD	TNAME	SCORED	AGAINST
1	India	10	4
2	Germany	9	6
3	Brazil	12	8
4	Spain	3	10
5	Italy	8	12
6	Japan	2	9

6 rows selected.

SQL> select * from empl;

EMPID	EMPNAME	DEPTID	SALARY
101	A	10	40000
102	B	10	60000
103	C	20	20000
104	D	30	15000

SQL> select * from employee;

select * from employee
*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> select * from employees;

no 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> ed c:/oracle/fun2.sql

SQL> select add_months(dojo,12*5) from customers;

ADD_MONTH

10-APR-25
13-APR-25
30-SEP-27
15-FEB-28
10-APR-25
03-NOV-30
06-NOV-30
04-OCT-30
16-MAY-28
15-NOV-30

10 rows selected.

SQL> ed c:/oracle/fun2.sql

SQL> @ c:/oracle/fun2.sql

Function created.

SQL> select fun2(1,10) from dual;

```
FUN2(1,10
```

```
-----
```

```
10-APR-30
```

```
SQL> ed c:/oracle/fun2.sql
```

```
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 between_days(doj,sysdate) from customers;
select between_days(doj,sysdate) from customers
*
```

```
ERROR at line 1:
```

```
ORA-00904: "BETWEEN_DAYS": invalid identifier
```

```
SQL> select days_between(doj,sysdate) from customers;
select days_between(doj,sysdate) from customers
*
```

```
ERROR at line 1:
```

```
ORA-00904: "DAYS_BETWEEN": invalid identifier
```

```
SQL> select sysdate-doj from customers;
```

```
SYSDATE-DOJ
```

```
-----
```

```
2078.37802
```

```
2075.37802
```

```
1175.37802
```

```
1037.37802
```

```
2078.37802
```

```
44.9550694
```

```
42.3780208
```

```
75.3780208
```

```
947.378021  
33.001331
```

10 rows selected.

```
SQL> select DOJ,sysdate-DOJ from customers;
```

DOJ	SYSDATE-DOJ
10-APR-20	2078.37823
13-APR-20	2075.37823
30-SEP-22	1175.37823
15-FEB-23	1037.37823
10-APR-20	2078.37823
03-NOV-25	44.9552778
06-NOV-25	42.3782292
04-OCT-25	75.3782292
16-MAY-23	947.378229
15-NOV-25	33.0015394

10 rows selected.

```
SQL> select round(sysdate-DOJ) from customers;
```

ROUND(SYSDATE-DOJ)
2078
2075
1175
1037
2078
45
42
75
947
33

10 rows selected.

```
SQL> select round(sysdate-DOJ,2) from customers;
```

ROUND(SYSDATE-DOJ,2)
2078.38
2075.38
1175.38
1037.38
2078.38
44.96
42.38

```
75.38  
947.38  
33
```

10 rows selected.

```
SQL> ed c:/oracle/fun2.sql
```

```
SQL> ed c:/oracle/fun3.sql
```

```
SQL> @ c:/oracle/fun3.sql
```

Function created.

```
SQL> select fun3(10) from dual;
```

```
FUN3(10)  
-----  
3652
```

```
SQL> select 3652/120 from dual;
```

```
3652/120  
-----  
30.4333333
```

```
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 add_months(doj,120) from customers where cno=10;
```

```
ADD_MONTH  
-----  
15-NOV-35
```

```
SQL> select add_months(doj,120)-doj from customers where cno=10;
```

```
ADD_MONTHS(DOJ,120)-DOJ
```

```
-----  
3652
```

```
SQL> select add_months(doj,120) from customers where cno=;
```

```
select add_months(doj,120) from customers where cno=
```

```
*
```

```
ERROR at line 1:
```

```
ORA-00936: missing expression
```

```
SQL> select add_months(doj,120) from customers where cno=7;
```

```
ADD_MONTH
```

```
-----
```

```
06-NOV-35
```

```
SQL> select add_months(doj,120)-doj from customers where cno=7;
```

```
ADD_MONTHS(DOJ,120)-DOJ
```

```
-----
```

```
3652
```

```
SQL> select fun3(7) from dual;
```

```
FUN3(7)
```

```
-----
```

```
3652
```

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> @ c:/oracle/p4.sql
```

```
Function created.
```

```
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 fun4(10) from dual;
select fun4(10) from dual
*
ERROR at line 1:
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at "PRINCE.FUN4", line 6
```

```
SQL> select fun4(20) from dual;
```

```
FUN4(20)
```

```
-----  
Sumit
```

```
SQL> select fun4(30) from dual;
```

```
FUN4(30)
```

```
-----  
Vijay
```

```
SQL> @ c:/oracle/p4.sql
```

```
Function created.
```

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> @ c:/oracle/p4.sql
```

```
Function created.
```

```
SQL> select fun4(10) from dual;
select fun4(10) from dual
*
ERROR at line 1:
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at "PRINCE.FUN4", line 6
```

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> select cname into nm from customers where DOJ=ALL(SELECT MIN(DOJ) FROM
2 customers WHERE DEPT=20);
select cname into nm from customers where DOJ=ALL(SELECT MIN(DOJ) FROM
*
```

```
ERROR at line 1:
```

```
ORA-00905: missing keyword
```

```
SQL> select cname from customers where DOJ=all(select min(DOJ) from  
2 customers where dept=20);
```

CNAME

Sumit

```
SQL> select min(DOJ) from  
2 customers where dept=20;
```

MIN(DOJ)

13-APR-20

```
SQL> select min(DOJ) from  
2 customers where dept=10;
```

MIN(DOJ)

10-APR-20

```
SQL> select cname from customers where DOJ='10-Apr-2020';
```

CNAME

Ravi

Sanjay

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> select rownum from customers;
```

ROWNUM

1

2

3

4

5

6

7

8

9

10

10 rows selected.

```
SQL> select rownum,source from trains;
```

```
    ROWNUM SOURCE
-----
 1 Delhi
 2 Delhi
 3 Indore

SQL> ed c:/oracle/p4.sql

SQL> select rownum,cname from customers where dept=10;

    ROWNUM CNAME
-----
 1 Ravi
 2 Ajay
 3 Sanjay
 4 Sourav

SQL> select rownum,cname from customers where dept=30;

    ROWNUM CNAME
-----
 1 Vijay
 2 Rani

SQL> ed c:/oracle/p4.sql

SQL> select * from customers fetch first 1 rows only;
select * from customers fetch first 1 rows only
*
ERROR at line 1:
ORA-00933: SQL command not properly ended

SQL> select * from customers limit 2;
select * from customers limit 2
*
ERROR at line 1:
ORA-00933: SQL command not properly ended

SQL> ed c:/oracle/p4.sql

SQL> @ c:/oracle/p4.sql

Function created.

SQL> select fun4(10) from dual;
select fun4(10) from dual
*
ERROR at line 1:
```

```
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at "PRINCE.FUN4", line 6
```

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> @ c:/oracle/p4.sql
```

```
Function created.
```

```
SQL> select fun4(10) from dual;
```

```
FUN4(10)
```

```
-----  
Ravi
```

```
SQL> ed c:/oracle/p4.sql
```

```
SQL> ed c:/oracle/p4.sql
```