**SQL> create table studprs(rno number(3), name varchar2(10),dob date,department char(15));**

Table created.

**SQL> desc studprs;**

Name Null? Type

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

RNO NUMBER(3)

NAME VARCHAR2(10)

DOB DATE

DEPARTMENT CHAR(15)

**SQL> create table mrksht(rno number(3),department char(15),total number(5),result char(10));**

Table created.

**SQL> desc mrksht;**

Name Null? Type

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

RNO NUMBER(3)

DEPARTMENT CHAR(15)

TOTAL NUMBER(5)

RESULT CHAR(10)

**SQL> insert into studprs values(101,'ANAND','26-FEB-2003','BSC CS');**

1 row created.

**SQL> insert into studprs values(102,'BABU','26-FEB-2002','BSC CS');**

1 row created.

**SQL> insert into studprs values(103,'LIONEL','20-MAR-2003','BCA');**

1 row created.

**SQL> insert into mrksht values(101,'BSC CS',450,'PASS');**

1 row created.

**SQL> insert into mrksht values(102,'BSC CS',212,'FAIL');**

1 row created.

**SQL> insert into mrksht values(104,'B TECH',422,'PASS');**

1 row created.

**SQL> SELECT\*FROM STUDPRS;**

RNO NAME DOB DEPARTMENT

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

101 ANAND 26-FEB-03 BSC CS

102 BABU 26-FEB-02 BSC CS

103 LIONEL 20-MAR-03 BCA

**SQL> SELECT\*FROM MRKSHT;**

RNO DEPARTMENT TOTAL RESULT

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

101 BSC CS 450 PASS

102 BSC CS 212 FAIL

104 B TECH 422 PASS

**SET FUNCTIONS:**

**SQL> SELECT RNO,DEPARTMENT FROM MRKSHT UNION SELECT RNO,DEPARTMENT FROM STUDPRS;**

RNO DEPARTMENT

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

101 BSC CS

102 BSC CS

103 BCA

104 B TECH

**SQL> SELECT RNO,DEPARTMENT FROM MRKSHT UNION ALL SELECT RNO,DEPARTMENT FROM STUDPRS;**

RNO DEPARTMENT

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

101 BSC CS

102 BSC CS

104 B TECH

101 BSC CS

102 BSC CS

103 BCA

6 rows selected.

**SQL> SELECT RNO,DEPARTMENT FROM MRKSHT INTERSECT SELECT RNO,DEPARTMENT FROM STUDPRS;**

RNO DEPARTMENT

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

101 BSC CS

102 BSC CS

**SQL> SELECT RNO,DEPARTMENT FROM MRKSHT MINUS SELECT RNO,DEPARTMENT FROM STUDPRS;**

RNO DEPARTMENT

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

104 B TECH

**SQL> SELECT RNO,DEPARTMENT FROM STUDPRS MINUS SELECT RNO,DEPARTMENT FROM MRKSHT;**

RNO DEPARTMENT

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

103 BCA

**JOINS:**

SQL> CREATE VIEW V1 AS SELECT RNO,DEPARTMENT FROM STUDPRS;

View created.

SQL> CREATE VIEW V2 AS SELECT RNO,DEPARTMENT FROM MRKSHT;

View created.

**VIEW:**

SQL> SELECT\*FROM V1;

RNO DEPARTMENT

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

101 BSC CS

102 BSC CS

103 BCA

SQL> SELECT\*FROM V2;

RNO DEPARTMENT

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

101 BSC CS

102 BSC CS

104 B TECH

SQL> SELECT\*FROM V1,V2 WHERE V1.RNO=V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 101 BSC CS

102 BSC CS 102 BSC CS

SQL> SELECT\*FROM V1,V2 WHERE V1.RNO<V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 102 BSC CS

101 BSC CS 104 B TECH

102 BSC CS 104 B TECH

103 BCA 104 B TECH

SQL> SELECT\*FROM V1,V2 WHERE V1.RNO>V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

102 BSC CS 101 BSC CS

103 BCA 101 BSC CS

103 BCA 102 BSC CS

SQL> SELECT \* FROM V1 LEFT OUTER JOIN V2 ON V1.RNO=V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 101 BSC CS

102 BSC CS 102 BSC CS

103 BCA

SQL> SELECT \* FROM V1 RIGHT OUTER JOIN V2 ON V1.RNO=V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 101 BSC CS

102 BSC CS 102 BSC CS

104 B TECH

SQL> SELECT \* FROM V1 FULL OUTER JOIN V2 ON V1.RNO=V2.RNO;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 101 BSC CS

102 BSC CS 102 BSC CS

103 BCA

104 B TECH

SQL> SELECT \* FROM V1 CROSS JOIN V2;

RNO DEPARTMENT RNO DEPARTMENT

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

101 BSC CS 101 BSC CS

101 BSC CS 102 BSC CS

101 BSC CS 104 B TECH

102 BSC CS 101 BSC CS

102 BSC CS 102 BSC CS

102 BSC CS 104 B TECH

103 BCA 101 BSC CS

103 BCA 102 BSC CS

103 BCA 104 B TECH

9 rows selected.

**DATE FUNCTION:**

SQL> SELECT\*FROM D1;

DOB

---------

26-FEB-03

26-FEB-02

20-MAR-03

SQL> SELECT ADD\_MONTHS(DOB,4)FROM D1;

ADD\_MONTH

---------

26-JUN-03

26-JUN-02

20-JUL-03

SQL> SELECT MONTHS\_BETWEEN(DOB,'29-DEC-2022')FROM D1;

MONTHS\_BETWEEN(DOB,'29-DEC-2022')

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

-238.09677

-250.09677

-237.29032

SQL> SELECT NEXT\_DAY(DOB,'SUNDAY')FROM D1;

NEXT\_DAY(

---------

02-MAR-03

03-MAR-02

23-MAR-03

SQL> SELECT LAST\_DAY(DOB)FROM D1;

LAST\_DAY(

---------

28-FEB-03

28-FEB-02

31-MAR-03

SQL> SELECT LEAST(DOB)FROM D1;

LEAST(DOB

---------

26-FEB-03

26-FEB-02

20-MAR-03

SQL> SELECT LEAST('26-FEB-2003','30-MAR-2020')FROM D1;

LEAST('26-F

-----------

26-FEB-2003

26-FEB-2003

26-FEB-2003

SQL> SELECT LEAST('26-FEB-2003','30-MAR-2020')FROM DUAL;

LEAST('26-F

-----------

26-FEB-2003

SQL> SELECT LEAST('26-FEB-2003','30-MAR-2020')LEAST FROM DUAL;

LEAST

-----------

26-FEB-2003

SQL> SELECT GREATEST('26-FEB-2003','30-MAR-2020')GREAT FROM DUAL;

GREAT

-----------

30-MAR-2020

SQL> SELECT TRUNC(DOB,'MM') FROM D1;

TRUNC(DOB

---------

01-FEB-03

01-FEB-02

01-MAR-03

SQL> SELECT ROUND(TO\_DATE('26-FEB-2005'),'YEAR') FROM DUAL;

ROUND(TO\_

---------

01-JAN-05

SQL> SELECT ROUND(TO\_DATE(DOB),'YEAR') FROM D1;

ROUND(TO\_

---------

01-JAN-03

01-JAN-02

01-JAN-03