```
SQL> INSERT INTO committees VALUES('101','Ramesh',20);

1 row created.

SQL> INSERT INTO committees VALUES('102','Suresh',20);

1 row created.

SQL> INSERT INTO committees VALUES('103','Hritik',30);

1 row created.

SQL> INSERT INTO member VALUES('m101','Ramesh');

1 row created.

SQL> INSERT INTO member VALUES('m102','Suresh');

1 row created.

SQL> INSERT INTO member VALUES('m103','Rakesh');

1 row created.

SQL> --a)
SQL> SELECT committees.name FROM committees
  2  LEFT JOIN member
  3  ON committees.name=member.name
  4  MINUS
  5  SELECT committees.name FROM committees
  6  INNER JOIN member
  7  ON committees.name=member.name;

NAME
--------------------
Hritik

SQL> --b)
SQL> SELECT member.name FROM committees
```

```
SQL> --b)
SQL> SELECT member.name FROM committees
  2  RIGHT JOIN member
  3  ON committees.name=member.name
  4  MINUS
  5  SELECT committees.name FROM committees
  6  INNER JOIN member
  7  ON committees.name=member.name;

NAME
--------------------
Rakesh

SQL> --c)
SQL> SELECT DISTINCT(A.name) AS name1
  2  FROM committees A, committees B
  3  WHERE A.age=B.age AND A.name!=B.name;

NAME1
--------------------
Suresh
Ramesh

SQL> --Question-2
SQL> SELECT DISTINCT student.name, student.rollNo FROM student
  2  INNER JOIN teaching ON student.advisor=teaching.empId
  3  INNER JOIN enrollment ON student.rollNo=enrollment.rollNo AND teaching.courseId=enrollment.courseId;

NAME                 ROLLN
-------------------- -----
Shabuno              107
Palmer               14869
Marques              15883
Okaf                 10663
Januszewski          15487
Morales              10917
Grosch               10481
Arinb                15457
Duan                 10076
Mediratta            10204
```

```
NAME                 ROLLN
-------------------- -----
More                 10834
Jr                   11377

13 rows selected.

SQL> --Question-3
SQL> SELECT * FROM (SELECT preReqCourse FROM prerequisite WHERE courseId in
  2  (SELECT preReqCourse FROM prerequisite WHERE courseId='608')
  3  union
  4  SELECT preReqCourse FROM prerequisite WHERE courseId='608') INNER JOIN course ON course.courseId=preReqCourse;

PREREQCO COURSEID CNAME                                                CREDITS
-------- -------- ---------------------------------------------------- ----------
DEPTNO
--------------------
421      421      Aquatic Chemistry                                    4
15

634      634      Astronomy                                            4
13

864      864      Heat Transfer                                        3
12


SQL> -- Question-4
SQL> select distinct ( STUDENT.rollNo), STUDENT.name from STUDENT
  2  INNER JOIN  ENROLLMENT
  3     on STUDENT.ROLLNO = ENROLLMENT.ROLLNO
  4  LEFT JOIN (     SELECT a.courseid from  TEACHING a,TEACHING b
  5  where a.EMPID = b.EMPID and b.COURSEID = '319' )c
  6        ON C.COURSEID = ENROLLMENT.COURSEID
  7  MINUS
  8  select distinct ( STUDENT.rollNo), STUDENT.name from STUDENT
  9  INNER JOIN  ENROLLMENT
 10     on STUDENT.ROLLNO = ENROLLMENT.ROLLNO
 11  INNER JOIN  (     SELECT a.courseid from  TEACHING a,TEACHING b
 12  where a.EMPID = b.EMPID and b.COURSEID = '319' )c
```

```
SQL> -- Question-4
SQL> select distinct ( STUDENT.rollNo), STUDENT.name from STUDENT
  2  INNER JOIN  ENROLLMENT
  3      on STUDENT.ROLLNO = ENROLLMENT.ROLLNO
  4  LEFT JOIN  (    SELECT a.courseid from  TEACHING a,TEACHING b
  5  where a.EMPID = b.EMPID and b.COURSEID = '319' )c
  6          ON C.COURSEID = ENROLLMENT.COURSEID
  7  MINUS
  8  select distinct ( STUDENT.rollNo), STUDENT.name from STUDENT
  9  INNER JOIN  ENROLLMENT
 10      on STUDENT.ROLLNO = ENROLLMENT.ROLLNO
 11  INNER JOIN  (    SELECT a.courseid from  TEACHING a,TEACHING b
 12  where a.EMPID = b.EMPID and b.COURSEID = '319' )c
 13  ON C.COURSEID = ENROLLMENT.COURSEID;

ROLLN NAME
----- --------------------
10267 Rzecz
10269 Hilberg
10454 Ugarte
10556 Reed
10705 Terauchi
10727 Allard
10736 Veselovsky
108   Dhav
1080  Xue
1087  Roses
10904 Jerns

ROLLN NAME
----- --------------------
10917 Morales
11076 Prasad
11083 Kerridge
11095 Schultz
1110  Tzeng
11126 Englund
11152 Al-Tahat
11195 Shiang
11202 Heckman
```

```
----- --------------------
11453 Yamashita
11604 Neff
11682 Juol
12069 Skeen
12216 Griffiths
12711 Malagoli
13023 Serrano
13352 Gorsky
13495 Srini
13506 Patrick
13511 Adam

ROLLN NAME
----- --------------------
13749 Alfaro
13753 Hoshi
13826 Sommerfeldt
13921 Berger
14094 Miao
14214 Yoneda
14284 Takeshi
14432 Whitley
14484 Langer
14554 Ramadan
14563 Haigh

ROLLN NAME
----- --------------------
14596 Vekk
1460  Martinsen
14639 Sagiv
14869 Palmer
15024 Kawahara
15074 Kirtane
15086 Sun
15328 Chien
1533  She
15457 Arinb
15487 Januszewski
```

```
15487 Januszewski

ROLLN NAME
----- --------------------
15517 Anis
15613 Umehara
15698 Dink
15726 Neuhold
15883 Marques
16057 Wicki
163   Bandekar

62 rows selected.

SQL> --Question-5
SQL> SELECT student.rollNo, student.name FROM student
  2  INNER JOIN enrollment ON student.rollNo=enrollment.rollNo
  3  INNER JOIN prerequisite ON enrollment.courseId=prerequisite.preReqCourse
  4  AND enrollment.grade='S' AND prerequisite.courseId='760';

ROLLN NAME
----- --------------------
10454 Ugarte
13408 Bromley
1367  Ignj
15030 Massour

SQL> --Question-6
SQL> SELECT DISTINCT(A.rollNo) FROM enrollment A, enrollment B WHERE A.rollNo=B.rollNo AND A.courseId=B.courseId AND A.year!=B.year;

no rows selected

SQL> _
```

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