```
SQL>
SQL> -- Question 1
SQL> -- a. Find Name of person in committees who is not a member
SQL> SELECT committees.name FROM committees
 2 LEFT JOIN member
        ON committees.name = member.name
 4 WHERE member.name IS NULL;
NAME
Hritik
SQL>
SQL> -- b. Find the Name of member who is not in committees list
SQL> SELECT member.name FROM member
2 LEFT JOIN committees
        ON member.name = committees.name
 4 WHERE committees.name IS NULL;
NAME
Rakesh
SQL>
SQL> -- c. Find the name of person in committees having same age
SQL> -- (Add column age in committees and set value 20,20,30 respectively)
SQL> ALTER TABLE committees ADD age NUMBER(2);
```

Table altered.

```
SQL> UPDATE committees SET age = 20 WHERE committee_id = '101';
1 row updated.
SQL> UPDATE committees SET age = 20 WHERE committee_id = '102';
1 row updated.
SQL> UPDATE committees SET age = 30 WHERE committee_id = '103';
1 row updated.
SQL>
SQL> SELECT a.name FROM committees a, committees b
2 WHERE a.age = b.age AND a.name <> b.name;
NAME
Suresh
Ramesh
SQL>
SQL>
SQL> -- Question 2
SQL> -- Find the roll number and names of students who have taken atleast one course taught by his or her advisor.
SQL> SELECT DISTINCT(student.rollNo), student.name FROM student
 2 INNER JOIN enrollment
        ON student.rollNo = enrollment.rollNo
 4 INNER JOIN teaching
```

```
ON student.advisor = teaching.empId
 6 WHERE enrollment.courseId = teaching.courseId;
ROLLN NAME
10076 Duan
10481 Grosch
10204 Mediratta
10663 Okaf
15883 Marques
10917 Morales
14869 Palmer
15487 Januszewski
16057 Wicki
11377 Jr
107
     Shabuno
10834 More
15457 Arinb
13 rows selected.
SQL>
SQL>
SQL> -- Question 3
SQL> -- What are those courses that are either pre-requisites of 608 or pre-requisites of
SQL> -- the prerequisites of the course 608(give course numbers, and course names)?
SQL> SELECT DISTINCT(course.courseId), course.cname FROM course
 2 INNER JOIN prerequisite
        ON course.courseId = prerequisite.preReqCourse
 4 WHERE prerequisite.courseId = '608'
```

```
OR prerequisite.courseId IN (SELECT preReqCourse FROM prerequisite WHERE courseId = '608');
 5
COURSEID CNAME
421
        Aquatic Chemistry
634
        Astronomy
        Heat Transfer
864
SQL>
SQL>
SQL> -- Question 4
SQL> -- Find all the students who have not taken any course offered by the teachers of course 319
SQL> SELECT DISTINCT(student.rollNo), student.name FROM student
 2 INNER JOIN enrollment
        ON student.rollNo = enrollment.rollNo
    LEFT JOIN (SELECT a.courseId FROM teaching a, teaching b WHERE a.empId = b.empId AND b.courseId = '319') c
        ON c.courseId = enrollment.courseId
 6 MINUS
 7 SELECT DISTINCT(student.rollNo), student.name FROM student
 8 INNER JOIN enrollment
        ON student.rollNo = enrollment.rollNo
10 INNER JOIN (SELECT a.courseId FROM teaching a, teaching b WHERE a.empId = b.empId AND b.courseId = '319') c
        ON c.courseId = enrollment.courseId;
11
ROLLN NAME
10267 Rzecz
10269 Hilberg
10454 Ugarte
10556 Reed
```

```
15457 Arinb
15487 Januszewski
15517 Anis
15613 Umehara
15698 Dink
15726 Neuhold
15883 Marques
16057 Wicki
      Bandekar
163
62 rows selected.
SQL>
SQL>
SQL> -- Question 5
SQL> -- Find roll no of students who have got S grade in all prerequisites of the course 760
SQL> SELECT DISTINCT(enrollment.rollNo) FROM enrollment
 2 INNER JOIN (SELECT DISTINCT(preReqCourse) FROM prerequisite WHERE courseId = '760') a
        ON enrollment.courseId = a.preReqCourse
 4 WHERE enrollment.grade = 'S';
ROLLN
13408
10454
1367
15030
SQL>
SQL>
```

```
SQL> SELECT DISTINCT(student.rollNo), student.name FROM student

2 INNER JOIN (SELECT a.rollNo FROM enrollment a, enrollment b

3 WHERE a.rollNo = b.rollNo AND a.courseId = b.courseId AND (a.sem <> b.sem OR a.year <> b.year)) e

4 ON student.rollNo = e.rollNo;

no rows selected
```

SQL> -- Find name and roll no of student who have taken course multiple times

SQL> -- Question 6

SQL>