```
SQL>
SQL> CREATE TABLE student(
  2      rollNo VARCHAR2(10),
  3      name VARCHAR2(20),
  4      degree VARCHAR2(10),
  5      year VARCHAR2(4),
  6      sex VARCHAR2(1),
  7      deptNo VARCHAR2(4),
  8      advisor VARCHAR2(10)
  9  );

Table created.

SQL>
SQL> CREATE TABLE department(
  2      deptId VARCHAR2(4),
  3      name VARCHAR2(20),
  4      hod VARCHAR2(10),
  5      phone VARCHAR2(10)
  6  );

Table created.

SQL>
SQL> CREATE TABLE professor(
  2      empId VARCHAR2(10),
  3      name VARCHAR2(20),
  4      sex VARCHAR2(1),
```

```
    5      startYear NUMBER(4),
    6      deptNo VARCHAR2(4),
    7      phone VARCHAR2(10)
    8  );

Table created.

SQL>
SQL> CREATE TABLE enrollment(
    2      rollNo VARCHAR2(10),
    3      courseId VARCHAR2(5),
    4      sem VARCHAR2(4),
    5      year VARCHAR2(4),
    6      grade VARCHAR2(1)
    7  );

Table created.

SQL>
SQL> CREATE TABLE teaching(
    2      empId VARCHAR2(10),
    3      courseId VARCHAR2(5),
    4      sem VARCHAR2(4),
    5      year VARCHAR2(4),
    6      classRoom VARCHAR2(5)
    7  );

Table created.

SQL>
```

```
SQL> INSERT INTO student VALUES('CS02B2018', 'Abhishek', 'B.Tech', '2002', 'M', '001', 'CS01');

1 row created.

SQL>
SQL> INSERT INTO department VALUES('001', 'Computer Science', 'CS01', '1234567890');

1 row created.

SQL>
SQL> INSERT INTO professor VALUES('CS01', 'Masilamani', 'M', '2000', '001', '1234567899');

1 row created.

SQL> INSERT INTO professor VALUES('CS02', 'Rajesh', 'M', '2000', '001', '1234567888');

1 row created.

SQL>
SQL> INSERT INTO enrollment VALUES('CS02B2018', 'CS101', 'Even', '2002', 'S');

1 row created.

SQL>
SQL> insert into teaching values('CS01', 'CS101', 'Even', '2002', 'H01');

1 row created.

SQL>
SQL>
```

```
SQL>
SQL> -- Question 1
SQL> SELECT name, rollNo FROM student
  2  WHERE advisor IN (
  3      SELECT hod FROM department WHERE name = 'Computer Science'
  4  );

NAME                    ROLLNO
-------------------- ----------
Abhishek                CS02B2018

SQL>
SQL>
SQL> -- Question 2
SQL> CREATE TABLE prof02 AS
  2  SELECT empId FROM teaching WHERE year = 2002;

Table created.

SQL>
SQL> CREATE TABLE prof02join AS
  2  SELECT p.name, p.startYear FROM professor p INNER JOIN prof02 p02 ON p.empId = p02.empId;

Table created.

SQL>
SQL> SELECT * FROM prof02join WHERE startYear = (
  2      SELECT MIN(startYear) FROM prof02join
  3  );
```

```
NAME                 STARTYEAR
-------------------- ----------
Masilamani                 2000

SQL>
SQL>
SQL> -- Question 3
SQL> CREATE TABLE enroll02 AS
  2  SELECT * FROM enrollment WHERE year = 2002;

Table created.

SQL>
SQL> SELECT DISTINCT rollNo FROM enroll02
  2  MINUS
  3  SELECT DISTINCT rollNO FROM enroll02 WHERE grade != 'S';

ROLLNO
----------
CS02B2018

SQL>
```