```
1
 SELECT inst_name from instructor
 where salary > ANY(
 select salary from instructor
 WHERE dept_name = 'Biology');
   ----
 SELECT dept_name from department WHERE dept_name like '%i%';
Q2
1
 SELECT inst_name from instructor WHERE salary > 70000;
_____
CREATE VIEW SimpleInstructorCourse AS
  Instructor.inst_name AS inst_name,
  Course.title AS course title
FROM Instructor
JOIN teacher ON Instructor.instrutor_id = teacher.inst_id
JOIN Course ON teacher.course_id = Course.course_id;
______
3
SELECT inst name FROM instructor where LENGTH(inst name) = 5;
Q3
1 Create a view to find instructor name and course for instructors in IT department
 CREATE VIEW courseview as
 SELECT
 instructor.inst_name as inst_name,
 course.title as course title
 From instructor
 JOIN teacher on instructor.instrutor_id = teacher.inst_id
JOIN course on teacher.course_id = course.course_id
 WHERE instructor.dept_name ='IT';
2 Find titles along with department where department must end with "y"
 SELECT dept_name from department WHERE dept_name like '%y';
3 Find the names of all instructors whose salary is greater than at least one instructor in biology dept
 SELECT inst_name from instructor
 where salary > ANY(
 select salary from instructor
 WHERE dept name = 'Biology');
4 Find the titles along with department name of biology department.
SELECT title, dept_name from course WHERE dept_name ='Biology';
```

Q1

```
Q4
1Find the average salary of the instructors who are in music dept.
 SELECT AVG(salary) from instructor WHERE dept name ='music';
2 Find the average salary of the instructors all dept.
 SELECT dept_name, AVG(salary) from instructor GROUP by dept_name;
3 Find out department name with average salary in each department where average salary is greater
than 40000
 SELECT dept_name,AVG(salary) from instructor GROUP By dept_name HAVING AVG(salary)>40000;
Q5
1 Find the names of all instructors in music dept who have salary greater than 50000
 SELECT salary from instructor Where dept_name='music' HAVING salary >50000;
2 Find the details of instructors who are teaching some courses
 SELECT DISTINCT i.*
 from instructor i
 Join teacher t On i.instrutor_id=t.inst_id;
3 List all instructors along with the courses that they teach.
 SELECT
 i.inst_name AS instructor_name,
 c.title AS course title
 FROM Instructor i
 JOIN teacher t ON i.instrutor_id = t.inst_id
 JOIN Course c ON t.course_id = c.course_id;
4 List instructors in descending order.
SELECT * FROM Instructor ORDER BY inst_name DESC;
Q6
1 Find the names of instructors who are working in IT dept.
SELECT inst_name FROM Instructor where dept_name='IT';
2 Create a view to find out only instructors who have taught some course.
 CREATE VIEW Instructors Taught Courses AS
 SELECT DISTINCT i.*
 FROM Instructor i
 JOIN teacher t ON i.instrutor_id = t.inst_id;
```

```
3 Give the increment of rs. 10000 to instructors whose salary is less than 40000 else give increment of
rs.20000.
UPDATE Instructor
SET salary = salary + CASE
    WHEN salary < 40000 THEN 10000
    ELSE 20000
  END;
4 Find the average salary of the instructors all dept.
 SELECT dept_name, AVG(salary) from instructor GROUP by dept_name;
_____
7
1 Find the average salary of the instructors all dept.
 SELECT dept_name, AVG(salary) from instructor GROUP by dept_name;
2 Find number of instructors with department name in each department
 SELECT dept_name, COUNT(*) AS instructor_count
 FROM Instructor
 GROUP BY dept name;
3 Find the names of all departments whose name includes substring "i".
 SELECT dept name from department WHERE dept name like '%i%';
4 List the entire instructor relation in descending order
SELECT * FROM Instructor ORDER BY inst name DESC;
8
1 Find the name of students who have taken some courses
 SELECT DISTINCT s.sname FROM Student s JOIN Takes t ON s.sid = t.sid;
-----
2 Find the details of the students who are in Computer department
SELECT * FROM Student WHERE dept_name = 'Computer';
_____
3 Find the names of all departments whose name includes substring "a".
SELECT dept_name FROM Department WHERE dept_name LIKE '%a%':
9
1 Find average marks of each student, along with the name of student
 SELECT s.Name, AVG(m.Marks) AS Average Marks
 FROM Student s
 JOIN Marks m ON s.RollNo = m.RollNo
 GROUP BY s.RollNo, s.Name;
2 Find how many students have failed in the subject "DBMS"
 SELECT COUNT(DISTINCT m.RollNo) AS Failed Students
 FROM Marks m
 JOIN Subject s ON m.SubCode = s.SubCode
 WHERE s.SubName = 'DBMS' AND m.Marks < 40;
```

SELECT COUNT(DISTING	ents who are passed in "OS" CT m.RollNo) AS Passed_Students
FROM Marks m	Codo o SubCodo
JOIN Subject s ON m.Sub WHERE s.SubName = 'OS	
WHERE 3.50bivaine = 60	5 714D 111.Iviain3 >= 40,
4 Find the maximum marks	s of the subject "TOC"
SELECT MAX(m.Marks) A	AS Max_Marks
JOIN Subject s ON m.Sub	oCode = s.SubCode
WHERE s.SubName = 'TO	DC';
10 1 Find the names of suppli	ers who supply some red parts
SELECT DISTINCT s.Sna FROM Supplier s	
JOIN Catalog c ON s.Sid :	= c.Sid
JOIN Parts p ON c.Pid = p	
WHERE p.color = 'red';	
	rts whose cost is more than Rs.250
SELECT DISTINCT p.Pna	ime
FROM Parts p JOIN Catalog c ON p.Pid :	= c Pid
WHERE c.cost > 250;	- 0.1 ld
3 Find name of all parts wh	nose color is green
SELECT Pname FROM P	arts WHERE color = 'green';
4 Find number of parts sup	oplied by each supplier
SELECT s.Sname, COUN	T(c.Pid) AS NumberOfParts
FROM Supplier s	0.1
JOIN Catalog c ON s.Sid = GROUP BY s.Sname;	: c.Sid
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