PART – 2

1. **(a) SELECT** Dname, **COUNT**(*) **FROM** DEPARTMENT **,** EMPLOYEE **WHERE**
   Dnumber = Dno **GROUP BY** Dname **HAVING   AVG**(Salary)>30000;

   (b) SELECT DName, **COUNT**(*) FROM DEPARTMENT, EMPLOYEE **WHERE** Dnumber = Dno **AND**
   Sex ='M' **AND** Dname **IN**(**SELECT** Dname **FROM** EMPLOYEE, DEPARTMENT WHERE Dno =
   Dnumber **GROUP BY** Dname **HAVING AVG**(SALARY)>30000) **GROUP BY** Dname;

   (c) SELECT Fname, Lname **FROM** EMPLOYEE **WHERE** Dno = (**SELECT** Dno **FROM** EMPLOYEE
   WHERE Salary =(**SELECT MAX**(Salary) **FROM** EMPLOYEE));

   (d) SELECT Fname, Lname **FROM** EMPLOYEE **WHERE** Salary > 10000 + (**SELECT MIN**(SALARY)
   FROM EMPLOYEE);

   (e) SELECT Fname, Lname **FROM** EMPLOYEE e **WHERE** Salary = (**SELECT MIN**(Salary) **FROM**
   EMPLOYEE em **WHERE** e.Dno = em.Dno) **AND** Ssn **IN** (**SELECT** Ssn **FROM** EMPLOYEE, DEPENDENT
   WHERE Ssn = Essn **GROUP BY** Ssn **HAVING COUNT**(*) > 1);

2. **(a) CREATE VIEW** MANAGER_INFO **AS SELECT** Dname, Fname, Salary **FROM** EMPLOYEE ,
   DEPARTMENT **WHERE** Mgr_ssn = Ssn;

   (b) CREATE VIEW DEPT_PROJECT_INFO **AS SELECT** Dname, Fname, (**SELECT COUNT**(*) FROM
   EMPLOYEE ee **WHERE** ee.Dno = d1.Dnumber) **AS** number_of_emp, (**SELECT COUNT** (*) **FROM**
   PROJECT p **WHERE** p.Dnum = d1.Dnumber) **AS** number_of_projects **FROM** DEPARTMENT d1,
   EMPLOYEE e1 **WHERE** d1.Mgr_ssn = e1.Ssn;

   (c) CREATE VIEW DEPT_HOURS_INFO **AS SELECT** Pname, Dname, (**SELECT COUNT**(*) **FROM**
   WORKS_ON w1 **WHERE** w1.Pno = p1.Pnumber) **AS** Num_Employees , (**SELECT SUM**(w2.Hours)
   FROM WORKS_ON w2 **WHERE** w2.Pno = p1.Pnumber **GROUP BY** Pno) **AS** Total_Hours **FROM**
   PROJECT p1, DEPARTMENT d1 **WHERE** p1.Dnum = d1.Dnumber ;

   (d) CREATE VIEW PROJECT_INFO **AS SELECT** Pname, Dname, (**SELECT COUNT**(*) **FROM**
   WORKS_ON w1 **WHERE** w1.Pno = p1.Pnumber) **AS** num_employees, (**SELECT SUM**(w2.Hours)
   FROM WORKS_ON w2 **WHERE** w2.Pno = p1.Pnumber **GROUP BY** Pno) **AS** Total_hours **FROM**
   PROJECT p1, DEPARTMENT d1 **WHERE** p1.Dnum = d1.Dnumber **AND** (**SELECT COUNT**(*) **FROM**
   WORKS_ON w2 **WHERE** w2.Pno = p1.Pnumber **GROUP BY** w2.Pno) > 1

   (e) CREATE VIEW EMP_INFO **AS SELECT** Fname, Lname, Salary, Dname, (**SELECT** Fname, Lname
   FROM EMPLOYEE e2 **WHERE** d1.Mgr_ssn = e2.Ssn) **AS** Mgr_name, (**SELECT** Salary **FROM**
   EMPLOYEE e3 **WHERE** d1.Mgr_ssn = e3.Ssn) **AS** Mgr_Salary, (SELECT AVG(Salary) **FROM**
   EMPLOYEE e4 **WHERE** e4.Dno = D1.Dnumber **GROUP BY** e4.Dno) **AS** Avg_Salary **FROM**
   EMPLOYEE e1, DEPARTMENT d1 **WHERE** e1.Dno = d1.Dnumber;