

P1 – Database Systems Lab

(2.5 + 2.5 + 3 = 8 Marks)

B5B6

Set 1

1. Display department number and its average salary.
`select dno,avg(Salary) from employee group by dno;`
2. Display first name of employee and its ssn where department number is 5 and in alphabetical order of first name.
`select fname,ssn from employee where dno=5 order by fname;`
3. Display name of project and name of its handling department where project location is “Stafford”.
`select pname,dname from project,department where dnum=dnumber and plocation="Stafford";`

Set 2

1. Display supervisor ssn and number of employees working under every supervisor (Don't include null super_ssn in output)
`select super_Ssn,count(*) from employee group by super_ssn having super_ssn is not null;`
2. Display first name and last name of employee, department number , salary for all employees whose last name starts with ‘W’.
`select fname,lname,dno,salary from employee where lname like "w%";`
3. Display name of all dependent along with corresponding employee name.
`select dependent_name,fname from dependent,employee where essn=ssn;`

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B9B10

Set 1

1. Display department number and its average salary where average salary is more than 40000.
`select dno,avg(Salary) from employee group by dno having
avg(Salary)>40000;
select super_Ssn,count(*) from employee group by super_ssn;`
2. Display first name of employee and its ssn where department number is 5 and in descending order of first name.
`select fname,ssn from employee where dno=5 order by fname desc;`
3. Display name of project and name of its handling department.
`select pname,dname from project,department where dnum=dnumber;`

Set 2

1. Display supervisor ssn and number of employees working under every supervisor
`select super_Ssn,count(*) from employee group by super_ssn having
super_ssn is not null;`
2. Display first name and last name of employee, department number , salary for all employees whose first name contains “me”.
`select fname,lname,dno,salary from employee where fname like "%me%";`
3. Display name of all dependent daughters along with corresponding employee name.
`select dependent_name,fname from dependent,employee where essn=ssn
and relationship='Daughter';`

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B11B12

Set 1

1. For each department, retrieve the department number, the number of employees in the department, and their average salary.
`select dno, count(*), avg(salary) from employee group by dno;`
2. Display gender and its count working as an employee in a company.
`select sex, count(*) from employee group by sex;`
3. Display project name and its handling department name.
`select pname,dname from project,department where dnum=dnumber;`

Set 2

1. Display department number and its average salary where average salary is more than 35000.
`select dno,avg(Salary) from employee group by dno having avg(Salary)>35000;`
2. Display last name of employee and its ssn where department number is 4 and in alphabetical order of last name.
`select lname,ssn from employee where dno=4 order by lname;`
3. Display first name of all employees and his/her supervisor working in department number 5.
`select e.fname,s.fname from employee e, employee s where e.super_ssn=s.ssn and e.dno=5;`

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B7B8

Set 1

1. Display detail of all employees where ssn contains “34”
`select * from employee where ssn like '%34%';`
2. For each department, retrieve the department number, the number of employees in the department, and their total salary.
`select dno, count(*), sum(salary) from employee group by dno;`
3. Display name of the projects along with department number and department name controlled by research department
`select pname,dnumber,dname from project,department where dnumber=dnum and dname="Research";`

Set 2

1. Display supervisor ssn and number of employees working under every supervisor
`select super_Ssn,count(*) from employee group by super_ssn having super_ssn is not null;`
2. Display number of male working in a company.
`select count(*) from employee where sex='m';`
3. Display name of all dependent sons along with corresponding employee name.
`select dependent_name,fname from dependent,employee where essn=ssn and relationship='Son';`