1) select dnum, dname, mgrssn, fname

from departments, employee

where mgrssn = ssn;

2) select dname, pname

from departments, project

where departments.dnum = project.dnum;

3) select dependent\_name, dependent.sex, dependent.bdate, fname

from dependent, employee

where essn = ssn;

4) select dependent\_name, dependent.sex

from dependent inner join employee on essn = ssn

where upper(dependent.sex) = 'F' and (select sex from employee where ssn = essn) = 'F'

union

select dependent\_name, dependent.sex

from dependent inner join employee on essn = ssn

where upper(dependent.sex) = 'M' and (select sex from employee where ssn = essn) = 'M';

5) select pnumber, pname, plocation from project where city = 'Cairo' or city = 'Alex';

6) select \* from project where pname like upper('a%');

7) select \* from employee where dno = 30 and salary between 1000 and 2000;

8) select fname

from employee , works\_for, project

where ssn = essn and pno = pnumber and dno = 10 and hours >= 10 and pname = 'Al Rabwah';

or

select fname

from employee

inner join works\_for on ssn = essn

inner join project on pno = pnumber

where employee.dno = 30

and works\_for.hours >= 10

and project.pname = 'Al Rabwah';

9) select fname || ' ' || lname fullName

from employee

where superssn = (select ssn from employee where (fname || ' ' || lname) = ' Kamel Mohamed');

10) select pname, sum(hours) total\_hours

from project , works\_for

where pnumber = pno

group by pname;

11) select fname , pname

from employee, project, works\_for

where ssn = essn and pno = pnumber

order by pname;

12) select \* from departments inner join employee on dno = dnum where ssn =(select min(ssn) from employee);

Or

select \*

from departments

where dnum =

( select dno

from employee where ssn =(select min(ssn) from employee)

);

13) select dname, max(salary), min(salary), avg(coalesce (salary,0 ))

from departments, employee

where dno = dnum group by dname;

14) select lname

from employee

inner join departments on ssn = mgrssn and ssn not in (select essn from dependent)

group by lname;

15)

select dname, dnum, count(fname)

from departments, employee where dno = dnum

group by dname , dnum

having avg(coalesce (salary, 0)) < all (select avg(coalesce (salary, 0)) from employee);

16) select fname || ' ' || lname fullName, dno

from employee

inner join works\_for on ssn = essn

inner join project on pno = pnumber

group by fullName, dno, lname, fname

order by dno , lname , fname;

17) select pnumber, dname, lname, address, bdate

from project

inner join departments on project.dnum = departments.dnum

inner join employee on mgrssn = ssn

where city = 'Cairo'