

Quiz 3

Please disregard the capitalization problem for the sql keywords.

Thank you.

1.

a).

```
Create view manager-view
as select DName, FName, LName, Address
from Department, Employee
where MgrSSN = SSN
```

b).

```
Create view Research_Employee
as select E.FName, E.LName, S.FName, S.LName, E.salary
from Employee E, Employee S
where SuperSSN = SSN and E.DNO
in (select DNO
from Department
where DName = 'Research')
```

2.

```
select SSN, LName, Count(D.ESSN) AS Num-Dep
from (Employee E LEFT OUTER JOIN Dependent D ON
      E.SSN = D.ESSN)
```

```
Group by E.SSN, E.LName
Order by LName
```

3.

```
select E1.Lname, E1.DNo, E1.Salary
from Employee E1
where salary > (select avg(salary)
                 from Employee E2
                 where E2.Dno = E1.Dno)
```

4.

```
select E1.Lname
from Employee E1, Department D1
where E1.Dno = D1.Dno and not exists
```

```
( select *
  from Department D2, Project P1, Works-on W1
  where D2.Dno = P1.DNo and P1.PNo = W1.PNo
    and E1.Dno = D2.Dno and E1.Ssn = W1.Ssn)
```

5.

```
select E.Ssn, Count(*) as Number-of-projects
```

```
from Works-on W, Employee E.
```

```
where E.Ssn = W.Ssn and E.Gender = 'female'
```

```
Group By E.Ssn
```

```
Having Count(*) >= 2
```