**Company Database Schema**

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| 1. Display the **Department id**, **Department Name** and its **manager id** and the **Manager name.** |
| **select Dnum,Dname,MGRSSN ,Fname from Departments d , Employee e where e.SSN = d.MGRSSN** |
| 1. Display the **project name** and **departments’ name** that **control them** |
| **select Pname,Dnum from Project** |
| 1. Display the **dependent name** for all the dependence and the **name of the employee** they depend on him/her. |
| **select Dependent\_name ,Fname from Employee , Dependent where Dependent.ESSN = Employee.SSN** |
| 1. Retrieve the employee **first name, project name** of all employees work in **department 10** who **works more than or equal 10 hours**   ordered by **first name**. |
| **select Fname , Pname from Employee e ,Project p where e.SSN in**  **(**  **select ESSn from Works\_for where ESSn in (**  **select SSN from Employee e ,Project p where**  **e.Dno =10 and p.Dnum=10 order by( e.Fname) )**  **and Hours >=10**  **)** |
| 1. List the **last name** of all **managers** who have **no dependents.** |
| **select Lname from Employee where SSN in(select MGRSSN from Departments where Departments.MGRSSN not in (select ESSN from Dependent) )** |
| 1. Display the **department name** which has the **smallest employee ID over all employees' ID.** |
| **select Dname from Departments where Dnum in (select Dno from Employee where SSN in (select min(e.SSN)**  **from Employee e ))** |
| 1. For each department >>> display **department name and number of its employees**   -- if its **average salary is less than 1200** |
| **select Departments.Dname,count(\*) from Employee e inner join Departments on e.Dno = epartments.Dnum**  **group by (Departments.Dname ) having avg(e.Salary) < 1200** |