**Company Database Schema**

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| 1. Display the **Department id**, **Department Name** and its **manager id** and the **Manager name.** |
| SELECT D.Dnum,D.Dname,D.MGRSSN,E.Fname,E.Lname  FROM Departments D,Employee E  WHERE D.MGRSSN=E.SSN; |
| 1. Display the **project name** and **departments’ name** that **control them** |
| select p.pname,d.dname from project p, departments d where d.dnum=p.dnum |
| 1. Display the **dependent name** for all the dependence and the **name of the employee** they depend on him/her. |
| select d.Dependent\_name,e.fname from dependent d,employee e where d.essn=e.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 e.fname , p.pname from employee e, project p,works\_for w where p.dnum=e.dno and e.dno=10 and w.pno=p.pnumber and w.essn=e.ssn and w.hours>=10 ORDER BY e.fname |
| 1. List the **last name** of all **managers** who have **no dependents.** |
| select e.lname from employee e ,departments dep where dep.mgrssn=e.ssn and e.ssn not in (select essn from dependent) |
| 1. Display the **department name** which has the **smallest employee ID over all employees' ID.** |
| select d.dname from employee e , departments d where d.dnum=e.dno and e.ssn=(select min(ssn) from employee) |
| 1. For each department >>> display **department name and number of its employees**   -- if its **average salary is less than 1200** |
| select count(e.ssn) as noe ,e.dno,d.dname from employee e,departments d where d.dnum=e.dno group by d.dname,e.dno having avg(e.salary)<1200 |