SQL demo examples

1. create table employee2 (-- fewer columns than table employee
   fname   varchar(15)   not null,
   lname   varchar(15)   not null,
   ssn   char(9)   not null,
   salary   decimal(10,2),
   super_ssn char(9),
   dno   int   not null,
   primary key (ssn),
   foreign key (super_ssn) references employee(ssn),
   foreign key (dno) references department(dnumber)
);

2. create table department2 (-- again, fewer columns than department
   dname   varchar(15)   not null,
   dnumber   int   not null,
   mgr_ssn   char(9)   not null,
   primary key (dnumber),
   foreign key (mgr_ssn) references employee(ssn)
);

3. insert into employee2 values
   ('peter', 'dordal', '123456789', 29000.01, '012345678', 55);

4. delete from employee2 where fname='peter';

5. update employee2 set salary = 1.10 * salary where salary >= 50000;

6. select e.lname from employee2 e where e.dno = 5;

7a. select e.lname from employee2 e, department2 d
     where e.dno = d.dnumber and d.dname="maintenance";

Same as previous:

7b. select e.lname from employee2 e join department2 d on e.dno = d.dnumber
     where d.dname="maintenance";

8. select e.lname from employee2 e
   where e.salary in (select e.salary from employee2 e where e.dno = 5);

9. select e.dno, count(*) from employee e GROUP BY e.dno;

10. select e.dno, sum(e.salary) from employee e GROUP BY e.dno