1,2

create table Department(

dno int,

dname varchar (50),

constraint dep\_pk\_ primary key(dno)

constraint

);

select \*

from Department;

create table Project(

pno int,

pname varchar(20),

constraint pro\_pk\_ primary key(pno)

);

select\*

from Project;

create table Employee(

eno int,

NIC char(10),

ename varchar(50),

address varchar(50),

dnumber int,

constraint emp\_pk\_ primary key(eno),

constraint emp\_fk\_ foreign key(dnumber) references Department(dno)

);

select\*

from Employee;

create table Work\_on\_(

eno int,

pno int,

hired\_date datetime,

hours int,

constraint work\_pk\_ primary key(eno,pno),

constraint work\_fk\_1 foreign key(pno) references Project(pno),

constraint work\_fk\_2 foreign key(eno) references Employee(eno)

);

select\*

from Work\_on\_;

4

alter table Employee

add constraint chk\_no\_ check(eno like '[0-9][0-9][0-9]')

alter table Employee

add constraint chk\_NIC\_ check(NIC like '[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][v-V]')

alter table Employee

alter column ename varchar(50) not null;

alter table Work\_on\_

add constraint chk\_hrs check (hours >0)

alter table Department

add constraint chk\_dname check(dname in('Headquarters', 'Administration','Research'))

5

insert into Department values(1,'Headquarters');

insert into Department values(4,'Administration');

insert into Department values(5,'Research');

insert into Project values(1,'Road Construction,Bellaire');

insert into Project values(2,'Power plant,Sugarland');

insert into Project values(3,'Reproduction,Houston');

insert into Employee values(100,'901250087V','Smith,John B','731 Fondren,Houston',5);

6

delete from Employee

where ename='Wallace, Jennifer S.'

7

update Project

set pname = 'Water Recycling'

where pname = 'Recycling'

3

drop table Work\_no\_

drop table Employee

drop table Project

drop table Department