Table Creation

```
create table Student
(
s_id number(10),
s_name varchar2(20),
dob varchar2(15),
s_address varchar2(30)
)
desc student


create table class
(
room_no number(10),
c_time varchar2(20),
section varchar2(2),
subject varchar2(15)
)
desc class


create table newtable1
(
q_id number(10),
s_id number(10),
room_no number(10)
)
desc newtable1


create table newtable2
(
```

```
b_id number(10),

t_id number(10),

room_no number(10)

)

desc newtable2


create table Teacher

(

t_id number(10),

t_name varchar2(20),

t_address varchar2(30),

e_id number(10)

)

desc teacher


create table employee

(

e_id number(10),

e_name varchar2(20),

serial_no number(8)

)

desc employee


create table newtable3

(

serial_no number(8),

e_position varchar2(15),

e_salary number(8)

)
```

```
desc newtable3

create table registration
(
r_id number(10),
r_type varchar2(15),
name varchar2(20)
)
desc registration

create table newtable4
(
c_id number(10),
s_id number(10),
r_id number(10)
)
desc newtable4

create table administrative
(
phone_no number(11),
a_name varchar2(15)
)
desc administrative

create table contact
(
phone_no number(11),
email varchar2(30)
```

```
)
desc contact


create table newtable5

(

g_id number(10),

phone_no number(11),

r_id number(10)

)

desc newtable5
```

Primary key set

alter table student add constraint spk primary key(s_id)

alter table class add constraint cpk primary key(room_no)

alter table newtable1 add constraint n1pk primary key(q_id)

alter table newtable2 add constraint n2pk primary key(b_id)

alter table teacher add constraint tpk primary key(t_id)

alter table employee add constraint epk primary key(e_id)

alter table newtable3 add constraint n3pk primary key(serial_no)

alter table registration add constraint rpk primary key(r_id)

alter table newtable4 add constraint n4pk primary key(c_id)

alter table administrative add constraint apk primary key(phone_no)

alter table contact add constraint c1pk primary key(phone_no,email)

alter table newtable5 add constraint n5pk primary key(g_id)

Foreign key set

alter table newtable1 add constraint n1fk foreign key(s_id) references student(s_id)

alter table newtable1 add constraint n2fk foreign key(room_no) references class(room_no)

alter table newtable2 add constraint n3fk foreign key(t_id) references teacher(t_id)

alter table newtable2 add constraint n4fk foreign key(room_no) references class(room_no)

alter table teacher add constraint n5fk foreign key(e_id) references employee(e_id)

alter table employee add constraint n6fk foreign key(serial_no) references newtable3(serial_no)

alter table newtable4 add constraint n7fk foreign key(s_id) references student(s_id)

alter table newtable4 add constraint n8fk foreign key(r_id) references registration(r_id)

alter table newtable5 add constraint n9fk foreign key(phone_no) references administrative(phone_no)

alter table newtable5 add constraint n10fk foreign key(r_id) references registration(r_id)

Sequences

create sequence studentsq4

start with 30

increment by 1

maxvalue 100

nominvalue

nocycle

nocache

5.

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'Tanvir Ahmed','21-DEC-2000', 'ChapaiNawabgang');

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'Nusrat Jahan','5-JUL-2000', 'Dhaka');

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'Mosabbir Hossain','2-JUN-2000', 'Dhaka');

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'Mohammad Omar','15-FEB-2000', 'Chittagong');

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'Tasnia Binte','16-AUG-2000', 'Dhaka');

Alter sequence studentsq4

Increment by 3

cycle

minvalue 20

insert into student(s_id,s_name,dob,s_address) values (studentsq4.nextval,'John','28-AUG-2000', 'Dhaka');

```
create sequence administrativesq4

start with 10

increment by 1

maxvalue 30

nominvalue

nocycle

nocache


insert into administrative(phone_no,a_name) values
(administrativesq4.nextval,'Rifat Tasnim');

insert into administrative(phone_no,a_name) values
(administrativesq4.nextval,'Ankon Sarkar');


Alter sequence administrativesq4

Increment by 2

cycle

minvalue 5


insert into administrative(phone_no,a_name) values
(administrativesq4.nextval,'Kaniz Fatema');


select*

from administrative
```

Value Insertion

Student:

insert into student values (19408532,'Tanvir Ahmed','21-DEC-2000', 'ChapaiNawabgang');

insert into student values (20421921,'Nusrat Jahan','5-JUL-2000', 'Dhaka');

insert into student values (19404321,'Mosabbir Hossain','2-JUN-2000', 'Dhaka');

insert into student values (20434301,'Mohammad Omar','15-FEB-2000', 'Chittagong');

insert into student values (20439292,'Tasnia Binte','16-AUG-2000', 'Dhaka');

insert into student values (19408582,'Sabbir Rahman','13-May-2000','Natore');

insert into student values (21458553,'Anamika Roy','18-May-2001','Bogura');

insert into student values (21458572,'Tonny Ahmed','21-DEC-2001','Sylhet');

insert into student values (21459272,'Joy','17-Nov-2001','Magura');

Administrative:

insert into administrative values (01701049603,'Rifat Tasnim');

insert into administrative values (01940895632,'Ankon Sarkar');

insert into administrative values (01720439295,'Kaniz Fatema');

newtable3:

insert into newtable3 values (5600,'Accountant', 24300);

insert into newtable3 values (4300,'Accountant', 23200);

```sql
insert into newtable3 values (5001,'Clerk', 15700);

insert into newtable3 values (6300,'Guard', 11700);

insert into newtable3 values (1000,'Teacher',61700);

insert into newtable3 values (1010,'Teacher', 62700);

insert into newtable3 values (1005,'Teacher', 62900);

insert into newtable3 values (1006,'Teacher', 62500);
```

employee:

```sql
insert into employee values (50439295, 'Suresh Khan',5600);

insert into employee values (50439296, 'Abonti Mehjabin',4300);

insert into employee values (60439260,'Reja',5001);

insert into employee values (60439275,'Chetan',6300);

insert into employee values (10002436,'Fahmida Alam',1000);

insert into employee values (10102131,'Jenita Jahangir',1010);

insert into employee values (10052134,'Abdur Rauf',1005);

insert into employee values (10052135,'Zasmin Hauque',1006);
```

registration:

```sql
insert into registration values (458582,'Science','Sabbir Hossain');

insert into registration values (458553,'Bussiness Studies', 'Anamika Roy');

insert into registration values (458575,'Science','Tonny Ahmed');

insert into registration values (459275,'Science','Joy');
```

newtable4:

insert into newtable4 values (505833,19408582,458582);

insert into newtable4 values (458553,21458553,458553);

insert into newtable4 values (458575,21458572,458575);

insert into newtable4 values (459275,21459272,459275);

teacher:

insert into teacher values (10421921,'Fahmida Alam','Dhaka', 10002436);

insert into teacher values (10404321,'Jenita Jahangir', 'Rangpur', 10102131);

insert into teacher values (10434301,'Abdur Rauf','Rajshahi', 10052134);

insert into teacher values (10439292,'Zasmin Hauque','Dhaka',10052135);

contact:

insert into contact values (01701049603, 'anannya@aiub.edu');

insert into contact values (01940895632, 'ankon@aiub.edu');

insert into contact values (01720439295, 'kaniz@aiub.edu');

newtable5:

insert into newtable5 values (120, 01720439295,458582);

insert into newtable5 values (125, 01940895632,458553);

insert into newtable5 values (126, 01701049603,458575);

insert into newtable5 values (127, 01701049603,459275);

class:

insert into class values (101,'7.00 A.M-8.00 A.M', 'A', 'Management');

insert into class values (102,'7.00 A.M-8.00 A.M', 'B', 'English');

insert into class values (201,'8.00 A.M-9.00 A.M', 'A', 'Math');

insert into class values (202,'8.00 A.M-9.00 A.M', 'B', 'Chemistry');

newtable1:

insert into newtable1 values (3000, 19408532, 101);

insert into newtable1 values (3001, 20421921, 102);

insert into newtable1 values (3002, 19404321, 201);

insert into newtable1 values (3003, 20434301, 202);

insert into newtable1 values (3004, 20439292, 101);

insert into newtable1 values (3005, 19408582, 102);

insert into newtable1 values (3006, 21458553, 201);

insert into newtable1 values (3007, 21458572, 202);

insert into newtable1 values (3008, 21459272, 101);

newtable2:

insert into newtable2 values (2000, 10421921, 101);

insert into newtable2 values (2001, 10404321, 102);

insert into newtable2 values (2002, 10434301, 201);

insert into newtable2 values (2003, 10439292, 202);

insert into newtable2 values (2004, 10421921, 101);

insert into newtable2 values (2005, 10404321, 102);

insert into newtable2 values (2006, 10434301, 201);

insert into newtable2 values (2007, 10439292, 202);

insert into newtable2 values (2008, 10421921, 101);

Constraint

alter table student modify (s_name not null)

select*

from all_constraints

where table_name = 'STUDENT'

alter table contact add constraint cfu unique(email)

select*

from all_constraints

where table_name = 'CONTACT'