Project Description

**NAME: Hasnain Iftekhar.**

**Noman Amjad.**

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**CLASS: BSCS (2B)**

**ARID NO: 21-ARID-578,564,554.**

**SUB: Data base.**

A picture containing text, room, gambling house, scene

Description automatically generated

***SUBMITTED TO: MAM SHAGUFTA***

***DATE: 10th-06-2022***

**Quries.**

**Room table.**

crerenate table room(room\_id int primary key, location varchar(10),no\_of\_beds int,no\_of\_student int);

SQL> describe room;

Name Null? Type

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ROOM\_ID NOT NULL NUMBER(38)

LOCATION VARCHAR2(10)

NO\_OF\_BEDS NUMBER(38)

NO\_OF\_STUDENT NUMBER(38)

**Sequence.**

create sequence seq\_room\_id

increment by 1

start with 1

maxvalue 50

nocache

nocycle;

**Insert values.**

insert into room values(room\_id.nextval,'f1',4,4);

insert into room values(room\_id.nextval,'f1',3,2);

insert into room values(room\_id.nextval,'f2',3,4);

insert into room values(room\_id.nextval,'f2',4,4);

select \* from room;

ROOM\_ID LOCATION NO\_OF\_BEDS NO\_OF\_STUDENT

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6 f1 4 4

7 f1 3 2

8 f2 3 4

9 f2 4 4

**Student table.**

create table student(student\_name varchar(20),student\_id int primary key,adres varchar(20),fath

er\_name varchar(20),email varchar(30),room\_id int ,foreign key (room\_id) references student(student\_

id));

SQL> describe student;

Name Null? Type

----------------------------------------- -------- ----------------------------

STUDENT\_NAME VARCHAR2(20)

STUDENT\_ID NOT NULL NUMBER(38)

ADRES VARCHAR2(20)

FATHER\_NAME VARCHAR2(20)

EMAIL VARCHAR2(30)

ROOM\_ID NUMBER(38)

**Sequence.**

create sequence seq\_student\_id

increment by 1

start with 1

maxvalue 50

nocache

nocycle;

**Insert.**

SQL>insert into student values (student\_id.nextval,'faizan','6th road','noman','faizan@123',1);

1 row created.

SQL>insert into student values (student\_id.nextval,'babar','5th road','qasim','babar@123',2);

1 row created.

SQL>insert into student values (student\_id.nextval,'waqas','rawal road',’fazil','waqas@123',3);

1 row created.

SQL> select \* from student;

STUDENT\_ID STUDENT\_NAME ADRES FATHER\_NAME

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EMAIL ROOM\_ID

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1 faizan 6th road noman

faizan@123 1

2 babar 5th road qasim

babar@123 2

3 waqas rawal road fazil

waqas@123 3

**Staff table.**

SQL> create table staff(staff\_name varchar(20),father\_name varchar(20),staff\_id int primary key,adre

s varchar(20),email varchar(30),student\_id int,foreign key (student\_id) references staff(staff\_id));

SQL> describe staff;

Name Null? Type

----------------------------------------- -------- ----------------------------

STAFF\_NAME VARCHAR2(20)

FATHER\_NAME VARCHAR2(20)

STAFF\_ID NOT NULL NUMBER(38)

ADRES VARCHAR2(20)

EMAIL VARCHAR2(30)

STUDENT\_ID NUMBER(38)

**Sequence.**

create sequence seq\_staff\_id

increment by 1

start with 001

maxvalue 050

nocache

nocycle;

**Insert.**

insert into staff values('noman','ibrahim',staff\_id.nextval,'6th road','noman@123','1');

row 1 created.

insert into staff values(‘dilawar','arslan',staff\_id.nextval,'zia musjid','dilawar@123','2');

row 1 created.

insert into staff values('awas','junaid',staff\_id.nextval,'shamsaabad','awas@123','3');

row 1 created.

SQL> select \* from staff;

STAFF\_NAME FATHER\_NAME STAFF\_ID ADRES

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EMAIL STUDENT\_ID

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noman ibrahim 1 6th road

noman@123 1

dilawar arslan 2 zia musjid

dilawar@123 2

awas junaid 3 shamsabad

awas@123 3

**library table.**

SQL> create table library(book\_id int primary key,book\_name varchar(40),book\_status varchar(20),rack

\_no varchar(10),student\_id int,foreign key(student\_id) references library(book\_id));

Table created.

SQL> describe library;

Name Null? Type

----------------------------------------- -------- ----------------------------

BOOK\_ID NOT NULL NUMBER(38)

BOOK\_NAME VARCHAR2(40)

BOOK\_STATUS VARCHAR2(20)

RACK\_NO VARCHAR2(10)

STUDENT\_ID NUMBER(38)

**Sequence.**

SQL> create sequence seq\_book\_id

2 increment by 1

3 start with 1001

4 maxvalue 1050

5 nocache

6 nocycle;

Sequence created.

**Insert.**

SQL> insert into library values(book\_id.nextval,'english','avalible','r2',1);

1 row created.

SQL> insert into library values(book\_id.nextval,'urdu','issue','r5',2);

1 row created.

SQL> insert into library values(book\_id.nextval,'math','avalible','r4',3);

1 row created.

SQL> select\* from library;

BOOK\_ID BOOK\_NAME BOOK\_STATUS

---------- ---------------------------------------- --------------------

RACK\_NO STUDENT\_ID

---------- ----------

1001 english avalible

r2 1

1002 urdu issue

r5 2

1003 math avalible

r4 3

**Clinic table.**

SQL> create table clinic (doctor\_id int primary key,doctor\_name varchar(20),dieseas varchar(30),medi

cine varchar(30),student\_id int,foreign key(student\_id) references clinic(doctor\_id));

Table created.

SQL> describe clinic;

Name Null? Type

----------------------------------------- -------- ----------------------------

DOCTOR\_ID NOT NULL NUMBER(38)

DOCTOR\_NAME VARCHAR2(20)

DIESEAS VARCHAR2(30)

MEDICINE VARCHAR2(30)

STUDENT\_ID NUMBER(38)

**Sequence.**

create sequence seq\_doctor\_id

increment by 1

start with 101

maxvalue 150

nocache

nocycle;

**Insert.**

SQL> insert into clinic values(doctor\_id.nextval,'hasnain','cheast pain','panadol',1);

1 row created.

SQL> insert into clinic values(doctor\_id.nextval,'hasnain','headech','paracetamol',2);

1 row created.

SQL> insert into clinic values(doctor\_id.nextval,'afzal','fiver','panadol',3);

1 row created.

SQL> select \* from clinic;

DOCTOR\_ID DOCTOR\_NAME DIESEAS

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MEDICINE STUDENT\_ID

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101 hasnain cheast pain

panadol 1

102 hasnain headech

paracetamol 2

103 afzal fiver

panadol 3

**Fee Table.**

SQL> create table fee(challan\_id int primary key,student\_id int,total\_fee int,fee\_status varchar(20)

,last\_date date,foreign key(student\_id) references fee(challan\_id));

Table created.

SQL> describe fee;

Name Null? Type

----------------------------------------- -------- ----------------------------

CHALLAN\_ID NOT NULL NUMBER(38)

STUDENT\_ID NUMBER(38)

TOTAL\_FEE NUMBER(38)

FEE\_STATUS VARCHAR2(20)

LAST\_DATE DATE

**Sequence.**

create sequence seq\_challan\_id

increment by 1

start with 1

maxvalue 150

nocache

nocycle;

**INSERT.**

SQL> insert into fee values(challan\_id.nextval,1,52000,'paid','2-FEB-2022');

1 row created.

SQL> insert into fee values(challan\_id.nextval,2,52000,'paid','1-FEB-2022');

1 row created.

SQL> insert into fee values(challan\_id.nextval,3,55000,'unpaid','1-FEB-2022');

1 row created.

SQL> SELECT\* FROM FEE;

CHALLAN\_ID STUDENT\_ID TOTAL\_FEE FEE\_STATUS LAST\_DATE

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1 1 52000 paid 02-FEB-22

2 2 52000 paid 01-FEB-22

3 3 55000 unpaid 01-FEB-22

**Mess\_fee table.**

SQL> create table mess\_fee(challan\_id int primary key,student\_id int,total\_messfee int,fee\_status va

rchar(20),month int,foreign key(student\_id) references mess\_fee(challan\_id));

Table created.

SQL> describe mess\_fee;

Name Null? Type

----------------------------------------- -------- ----------------------------

CHALLAN\_ID NOT NULL NUMBER(38)

STUDENT\_ID NUMBER(38)

TOTAL\_MESSFEE NUMBER(38)

FEE\_STATUS VARCHAR2(20)

MONTH NUMBER(38)

**Sequence.**

create sequence seq\_challan\_id

increment by 1

start with 1

maxvalue 150

nocache

nocycle;

**Insert.**

SQL> insert into mess\_fee values(challan\_id.nextval,1,5000,'paid',2);

1 row created.

SQL> insert into mess\_fee values(challan\_id.nextval,2,6000,'unpaid',2)

1 row created.

SQL> insert into mess\_fee values(challan\_id.nextval,3,7000,'paid',2);

1 row created.

SQL> select \* from mess\_fee;

CHALLAN\_ID STUDENT\_ID TOTAL\_MESSFEE FEE\_STATUS MONTH

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1 1 5000 paid 2

2 2 6000 unpaid 2

3 3 7000 paid 2

**Resouces table.**

SQL> create table resources(item\_id int primary key,item\_name varchar(30),student\_id int,item\_status varchar(20),foreign key(student\_id) references resources(item\_id));

Table created.

SQL> describe resources;

Name Null? Type

----------------------------------------- -------- ----------------------------

ITEM\_ID NOT NULL NUMBER(38)

ITEM\_NAME NUMBER(38)

STUDENT\_ID NUMBER(38)

ITEM\_STATUS VARCHAR2(20)

**Sequences.**

SQL> create sequence seq\_item\_id

2 increment by 1

3 start with 001

4 maxvalue 050

5 nocache

6 nocycle;

Sequence created.

**INSERT.**

SQL> insert into resources values(item\_id.nextval,'AC',1,'avalible');

1 row created.

SQL> insert into resources values(item\_id.nextval,'DISPENSER',1,'avalible');

1 row created.

SQL> insert into resources values(item\_id.nextval,'IRON',3,'ISSUE');

1 row created.

SQL> SELECT \* FROM RESOURCES;

ITEM\_ID ITEM\_NAME STUDENT\_ID ITEM\_STATUS

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001 AC 1 avalible

002 DISPENSER 1 avalible

003 IRON 3 ISSUE