HOSTEL MANAGEMENT SYSTEM

STUDENT(SID,SNAME,PHONE,AGE,ADDRESS,COURSE)

ROOM(ROOMNO,RENT,STATUS,SID)

EMPLOYEE(ELD,ENAME,EMAIL,AADHARID,PHONE,DESIGNATION)

ADMIN(USERNAME,PASSWORD)

FEE(FID,SID,AMOUNT,FMONTH)

1)LIST THE STUDENTS WHO HAVE PAID MORE THAN 5000

2)LIST THE NAME OF THE STUDENT WHOSE ROOMNO IS ALLOCATED

3)LIST THE STUDENTS BASED ON THE COURSES

4)LIST THE EMPLOYEE BASED ON THE DESIGNATION

5)CREATE VIEW TO SHOW WHO HAVE PAID THE FEE

CREATION OF TABLES

```
CREATE TABLE STUDENT(
SID VARCHAR(10) PRIMARY KEY,
SFNAME VARCHAR(10),
SLNAME VARCHAR(10),
PHONE INTEGER,
AGE INTEGER,
CHECK(AGE>=18),
ADDRESS VARCHAR(20),
COURSE VARCHAR(5) NOT NULL);
```

```
CREATE TABLE ROOM(
R_NO INTEGER PRIMARY KEY,
RENT INTEGER DEFAULT 50000,
STATUS VARCHAR(10),
SID VARCHAR(10) REFERENCES STUDENT(SID) ON DELETE SET NULL);

CREATE TABLE EMPLOYEE(
EID INTEGER PRIMARY KEY,
EFNAME VARCHAR(10),
ELNAME VARCHAR(10),
EMAIL VARCHAR(30),
AADHARID INTEGER,
PHONE INTEGER,
DESIGNATION VARCHAR(10));


CREATE TABLE FEE(
FID INTEGER PRIMARY KEY,
SID VARCHAR(10) FOREIGN KEY REFERENCES TO STUDENT,
AMT INTEGER,
FMONTH VARCHAR(10));
CREATE TABLE ADMIN(
USERNAME VARCHAR(10),
PASSWORD VARCHAR(10));
```

INSERTION OF VALUES IN THE TABLE

INSERT INTO STUDENT VALUES('1JS20', 'MANASWINI', 'CHAGI', 9123434, 19, 'VIZAG','CSE');

INSERT INTO STUDENT VALUES('1JS21', 'NEHA', 'PANDEY', 73902, 22, 'VIZAG','CSE');

INSERT INTO STUDENT VALUES('1JS22', 'VARSHA', 'M', 91234, 21, 'VIZAG','CSE');

INSERT INTO STUDENT VALUES('1JS23', 'KHUSHI', 'RANI', 9833434, 20, 'VIZAG','CSE');

INSERT INTO STUDENT VALUES('1JS24', 'ISHIKA', 'SHARMA', 123990, 22, 'VIZAG','CSE');

INSERT INTO ROOM('R_NO', 'RENT', 'STATUS') VALUES(105, 5000, 'VACANT');

INSERT INTO ROOM VALUES(110, 7000, 'ENGAGED', '1JS21');

INSERT INTO ROOM VALUES(210, 9000, 'ENGAGED', '1JS23');

INSERT INTO ROOM('R_NO', 'RENT', 'STATUS') VALUES(207, 4000, 'VACANT');

INSERT INTO ROOM('R_NO', 'RENT', 'STATUS') VALUES(108, 5000, 'VACANT');

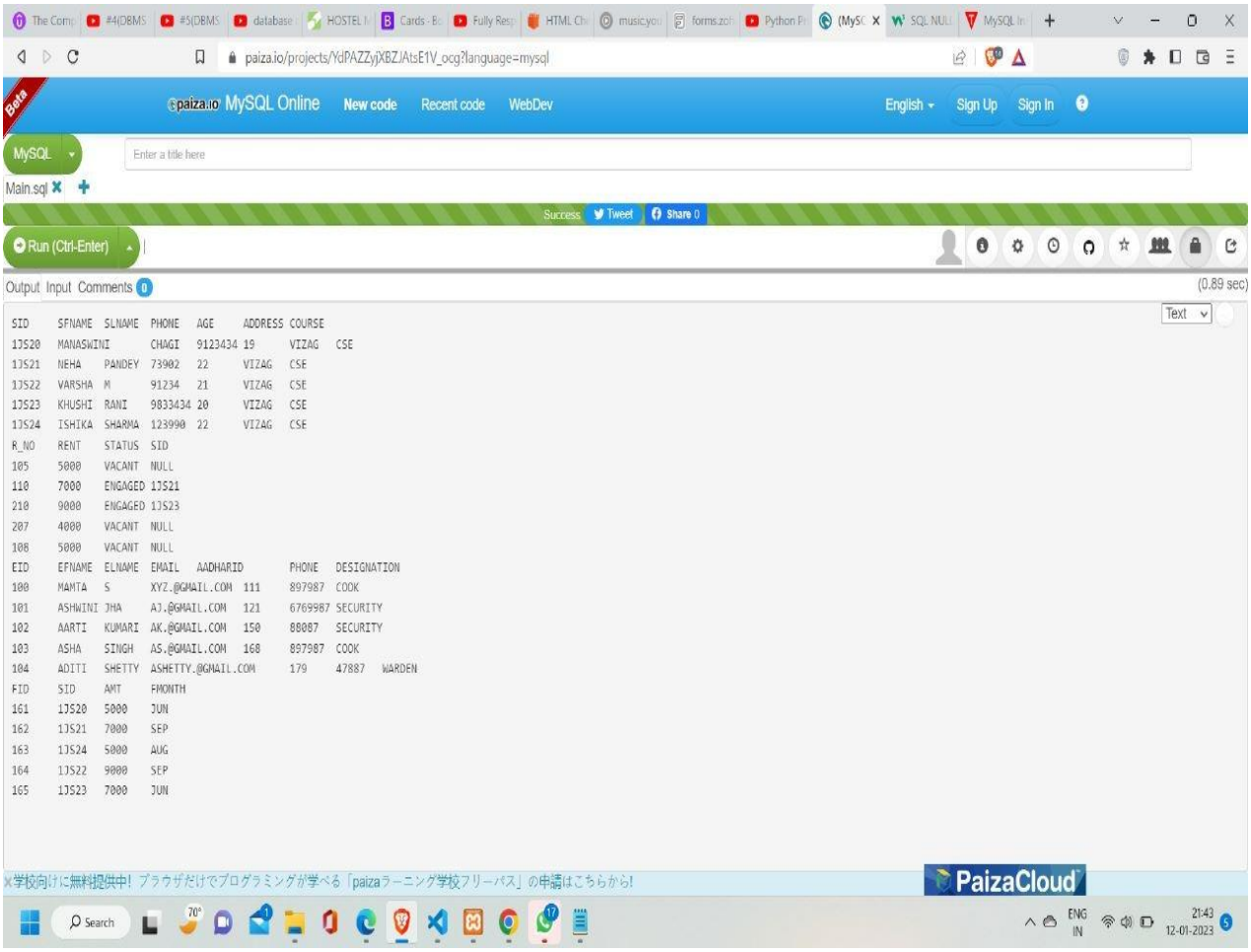
INSERT INTO EMPLOYEE VALUES(100, 'MAMTA', 'S', 'XYZ.@GMAIL.COM', 111, 897987, 'COOK');

INSERT INTO EMPLOYEE VALUES(101, 'ASHWINI', 'JHA', 'AJ.@GMAIL.COM', 121, 6769987, 'SECURITY');

INSERT INTO EMPLOYEE VALUES(102, 'AARTI', 'KUMARI', 'AK.@GMAIL.COM', 150, 88087, 'SECURITY');

```
INSERT INTO EMPLOYEE VALUES(103, 'ASHA', 'SINGH',
'AS.@GMAIL.COM', 168, 897987, 'COOK');

INSERT INTO EMPLOYEE VALUES(104, 'ADITI', 'SHETTY',
'ASHETTY.@GMAIL.COM', 179, 47887, 'WARDEN');


INSERT INTO FEE VALUES(161, '1JS20', 5000, 'JUN');

INSERT INTO FEE VALUES(162, '1JS21', 7000, 'SEP');

INSERT INTO FEE VALUES(163, '1JS24', 5000, 'AUG');

INSERT INTO FEE VALUES(164, '1JS22', 9000, 'SEP');

INSERT INTO FEE VALUES(165, '1JS23', 7000, 'JUN');


INSERT INTO ADMIN VALUES(‘AVENGERS’,123);

INSERT INTO ADMIN VALUES(‘THOR’,234);

INSERT INTO ADMIN VALUES(‘HORRIDHENRY’,456);

INSERT INTO ADMIN VALUES(‘HULK’,789);

INSERT INTO ADMIN VALUES(‘HITVH’,567);
```

TABLES WITH TUPLE VALUES



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```
SID     SFNAME  SLNAME  PHONE   AGE     ADDRESS COURSE
1JS20   MANASWINI       CHAGI   9123434 19      VIZAG   CSE
1JS21   NEHA    PANDEY  73902   22      VIZAG   CSE
1JS22   VARSHA  M       91234   21      VIZAG   CSE
1JS23   KHUSHI  RANI    9833434 20      VIZAG   CSE
1JS24   ISHIKA  SHARMA  123990  22      VIZAG   CSE
R_NO    RENT    STATUS  SID
105     5000    VACANT  NULL
110     7000    ENGAGED 1JS21
210     9000    ENGAGED 1JS23
207     4000    VACANT  NULL
108     5000    VACANT  NULL
EID     EFNAME  ELNAME  EMAIL   AADHARID        PHONE   DESIGNATION
100     MAMTA   S       XYZ.@GMAIL.COM  111     897987  COOK
101     ASHWINI JHA     AJ.@GMAIL.COM   121     6769987 SECURITY
102     AARTI   KUMARI  AK.@GMAIL.COM   150     88087   SECURITY
103     ASHA    SINGH   AS.@GMAIL.COM   160     897987  COOK
104     ADITI   SHETTY  ASHETTY.@GMAIL.COM      179     47887   WARDEN
FID     SID     AMT     FMONTH
161     1JS20   5000    JUN
162     1JS21   7000    SEP
163     1JS24   5000    AUG
164     1JS22   9000    SEP
165     1JS23   7000    JUN
```

※学校向けに無料提供中! ブラウザだけでプログラミングが学べる「paizaラーニング学校フリーパス」の申請はこちらから!

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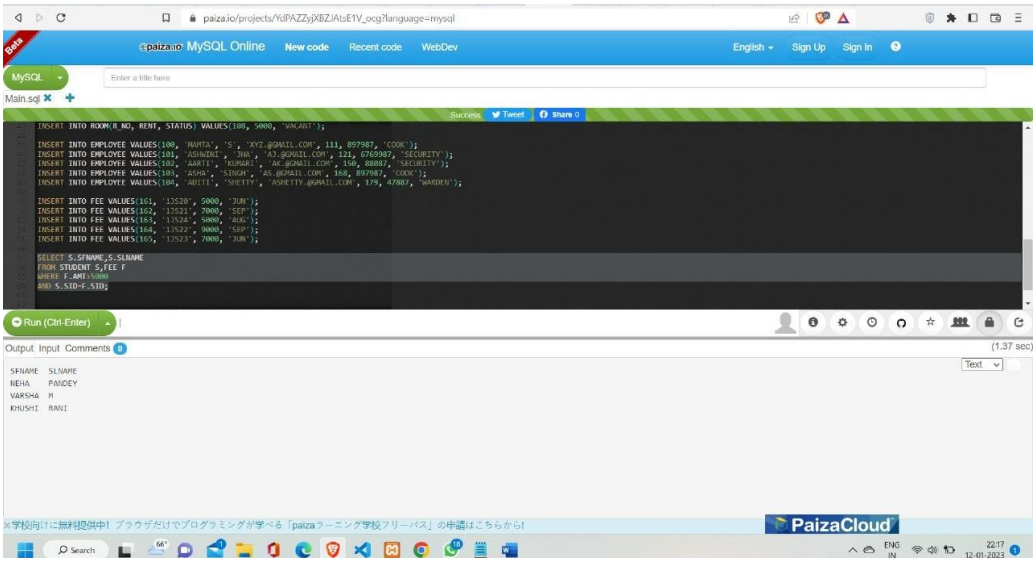
QUERIES

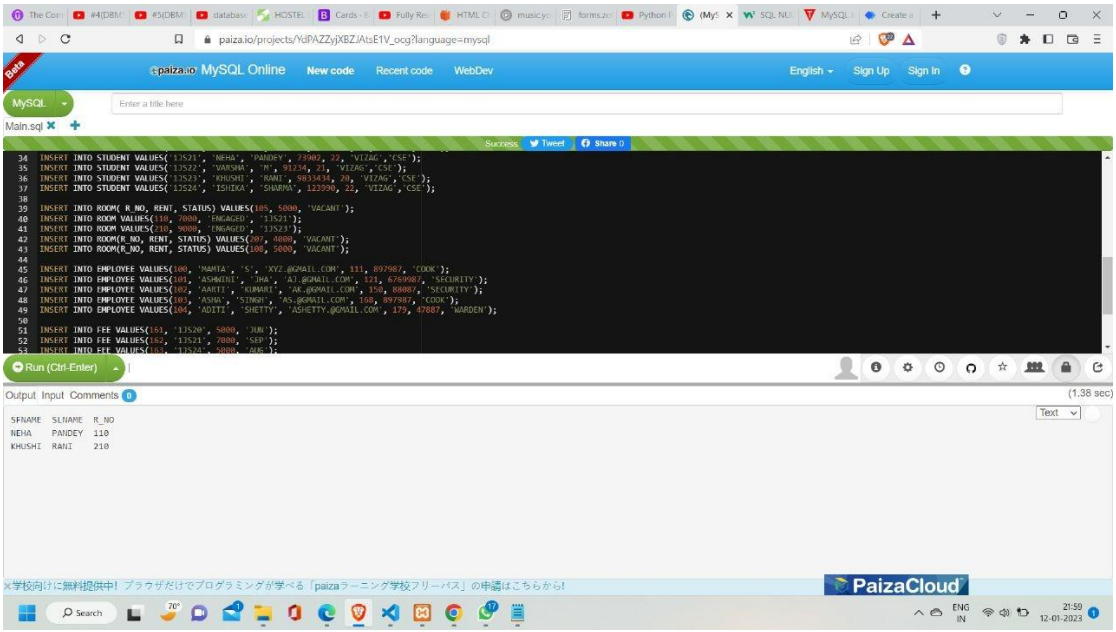
1) LIST THE STUDENTS WHO HAVE PAID MORE THAN 5000

```
SELECT S.SFNAME,S.SLNAME
FROM STUDENT S,FEE F
WHERE F.AMT>5000
AND S.SID=F.SID;
```



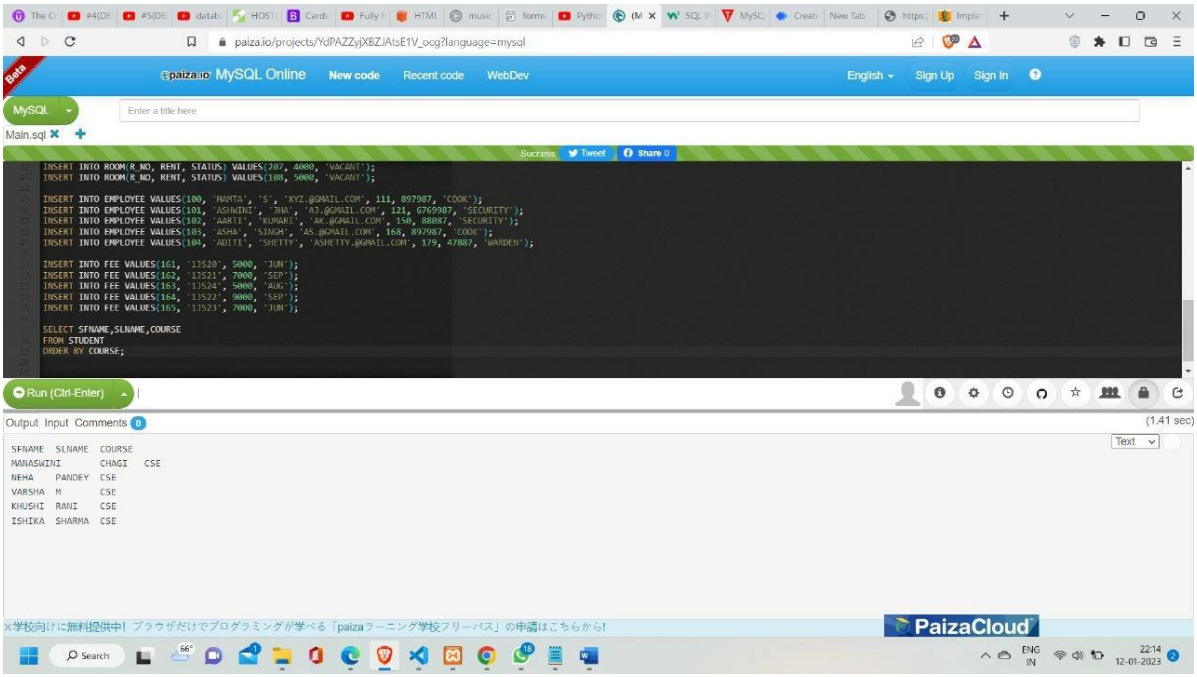
2) LIST THE NAME OF THE STUDENT WHOSE ROOMNO IS ALLOCATED

```
SELECT S.SFNAME,S.SLNAME,R.R_NO
FROM ROOM R, STUDENT S
WHERE 1<(SELECT COUNT(*)
FROM STUDENT
WHERE S.SID=R.SID);
```



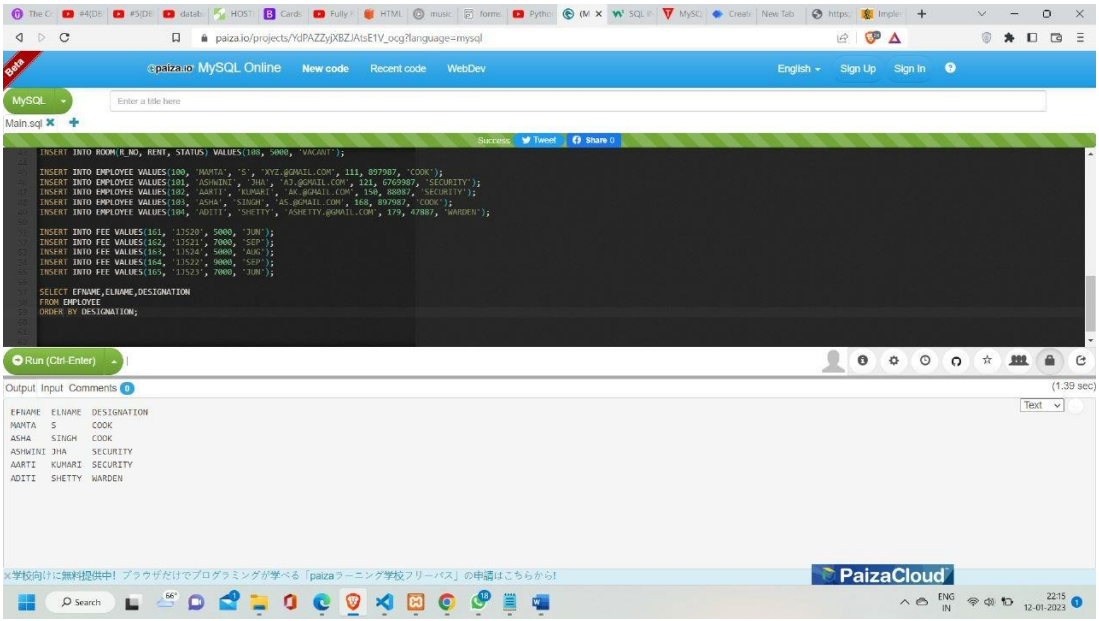
3) LIST THE STUDENTS BASED ON THE COURSES

```
SELECT SFNAME,SLNAME,COURSE
FROM STUDENT
ORDER BY COURSE;
```



4) LIST THE EMPLOYEE BASED ON THE DESIGNATION

```
SELECT EFNAME,ELNAME,DESIGNATION
FROM EMPLOYEE
ORDER BY DESIGNATION;
```



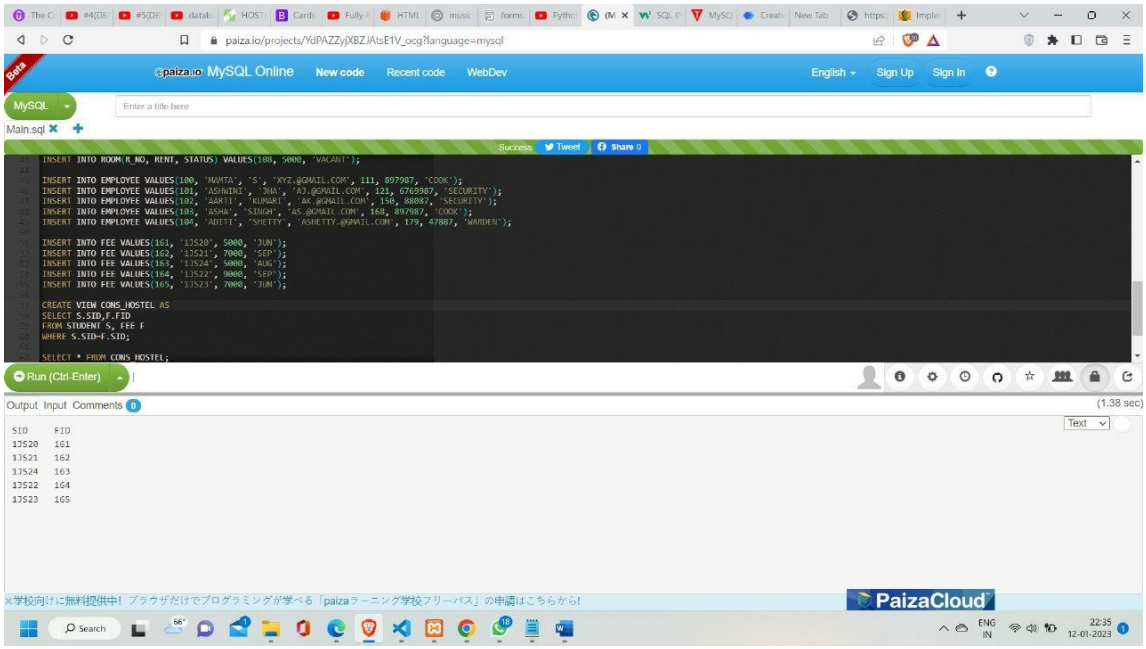
5) CREATE ASSERTION TO CHECK AGE OF STUDENT GREATER THAN 18

```
CREATE ASSERTION AGE_CONSTRAINT
CHECK NOT EXIST (SELECT SID FROM STUDENT WHERE
AGE>18);
```

6) CREATE VIEW TO SHOW WHO HAVE PAID THE FEE

```
CREATE VIEW CONS_HOSTEL AS
SELECT S.SID,F.FID
FROM STUDENT S, FEE F
WHERE S.SID=F.SID;
```

SELECT * FROM CONS_HOSTEL;



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