

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,  
SNAME 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

paiza.io MySQL Online

Run (Ctrl-Enter)

Success

Output Input Comments

(0.89 sec)

SID	SNAME	SNAME	PHONE	AGE	ADDRESS	COURSE
17520	MANASWINI	CHAGI	9123434	19	VIZAG	CSE
17521	NEHA	PANDEY	73902	22	VIZAG	CSE
17522	VARSHA	M	91234	21	VIZAG	CSE
17523	KHUSHI	RANIZ	9833434	20	VIZAG	CSE
17524	ISHIKA	SHARMA	123990	22	VIZAG	CSE

R_NO	RENT	STATUS	SID
105	5000	VACANT	NULL
110	7000	ENGAGED	17521
210	9000	ENGAGED	17523
207	4000	VACANT	NULL
108	5000	VACANT	NULL

EID	ENAME	ENAME	EMAIL	AADHARID	PHONE	DESIGNATION
100	MAHITA	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	168	897987	COOK
104	ADITI	SHETTY	ASHETTY.@GMAIL.COM	179	47887	WARDEN

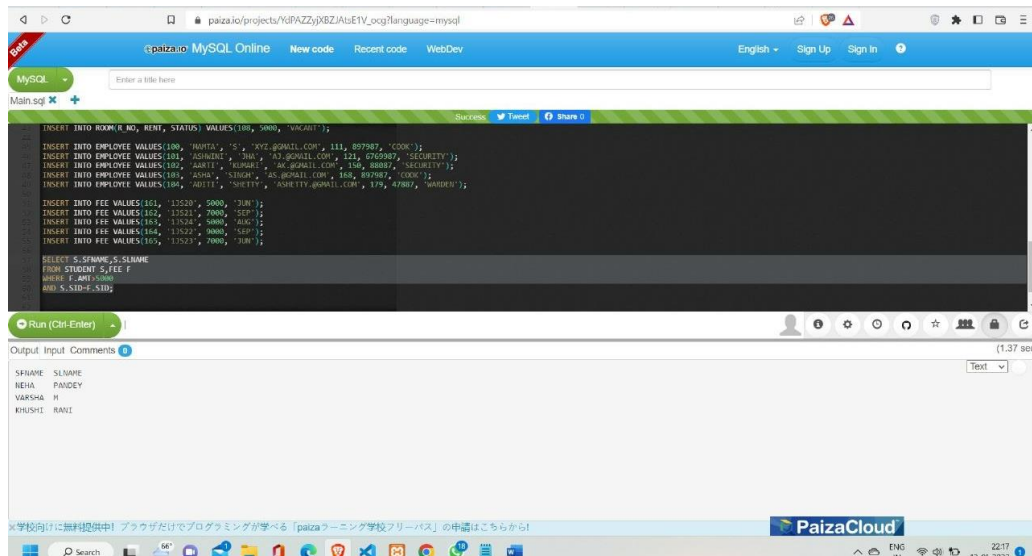
FID	SID	AMT	FMONTH
161	17520	5000	JUN
162	17521	7000	SEP
163	17524	5000	AUG
164	17522	9000	SEP
165	17523	7000	JUN

PaizaCloud

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;
```



The screenshot shows a web browser window with the URL `paiza.io/projects/YdPAZZyX8ZAtsEtV_oog?language=mysql`. The page title is "MySQL Online" and it includes navigation links for "New code", "Recent code", and "WebDev". The main area displays a MySQL query editor with the following SQL code:

```
INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(100, 5000, 'VACANT');
INSERT INTO EMPLOYEE VALUES(100, 'MUSTA', 'S', 'XYZ.GMAIL.COM', 111, 857987, 'CON');
INSERT INTO EMPLOYEE VALUES(102, 'AGNIBH', 'M', 'ABC.GMAIL.COM', 112, 678989, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(103, 'AMIT', 'RUPAK', 'AC.GMAIL.COM', 100, 88887, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(104, 'ZOMI', 'SIBIR', 'AC.GMAIL.COM', 100, 807897, 'CON');
INSERT INTO EMPLOYEE VALUES(105, 'ADITI', 'SHRETT', 'SHRETT.GMAIL.COM', 179, 47887, 'WARRIOR');

INSERT INTO FEE VALUES(101, '1520', 5000, 'JUN');
INSERT INTO FEE VALUES(102, '1521', 7000, 'SEP');
INSERT INTO FEE VALUES(103, '1522', 4000, 'AUG');
INSERT INTO FEE VALUES(104, '1523', 6000, 'SEP');
INSERT INTO FEE VALUES(105, '1523', 7000, 'JUN');

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

Below the query editor, the "Run" button is visible. The output section shows the results of the query:

SFNAME	SLNAME
MEHA	PANDEY
VARSHI	R
KRUSHI	RANI

The output is displayed in a table with columns "SFNAME" and "SLNAME". The results are: MEHA PANDEY, VARSHI R, and KRUSHI RANI. The execution time is 1.37 sec.

- 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);
```

```
34 INSERT INTO STUDENT VALUES(13521, 'NIDHA', 'PANDEY', 79989, 22, 'VIZAG', 'CSE');
35 INSERT INTO STUDENT VALUES(13522, 'VARSHA', 'M', 91234, 21, 'VIZAG', 'CSE');
36 INSERT INTO STUDENT VALUES(13523, 'KHUSHI', 'RANI', 989345, 20, 'VIZAG', 'CSE');
37 INSERT INTO STUDENT VALUES(13524, 'ISHIKA', 'SHARMA', 123980, 22, 'VIZAG', 'CSE');
38
39 INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(109, 5000, 'VACANT');
40 INSERT INTO ROOM VALUES(110, 7000, 'OCCUPIED', '13521');
41 INSERT INTO ROOM VALUES(110, 4000, 'OCCUPIED', '13523');
42 INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(109, 4000, 'VACANT');
43 INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(109, 5000, 'VACANT');
44
45 INSERT INTO EMPLOYEE VALUES(100, 'NARITA', 'S', 'XYZ@gmail.com', 111, 897987, 'COOK');
46 INSERT INTO EMPLOYEE VALUES(101, 'ASHWINI', 'SMA', 'AS@gmail.com', 121, 6769887, 'SECURITY');
47 INSERT INTO EMPLOYEE VALUES(102, 'ADITI', 'KUMARI', 'AK@gmail.com', 159, 88887, 'SECURITY');
48 INSERT INTO EMPLOYEE VALUES(103, 'ASHA', 'SINGH', 'AS@gmail.com', 168, 897987, 'COOK');
49 INSERT INTO EMPLOYEE VALUES(104, 'ADITI', 'SHETTY', 'ASHETTY@gmail.com', 179, 47887, 'WARDEN');
50
51 INSERT INTO FEE VALUES(151, '13520', 5000, 'JUN');
52 INSERT INTO FEE VALUES(152, '13521', 7000, 'SEP');
53 INSERT INTO FEE VALUES(153, '13522', 5000, 'AUG');
54 INSERT INTO FEE VALUES(154, '13523', 9000, 'AUG');
55 INSERT INTO FEE VALUES(155, '13524', 7000, 'JUN');
```

SFNAME	SLNAME	R_NO
NIDHA	PANDEY	110
KHUSHI	RANI	210

3) LIST THE STUDENTS BASED ON THE COURSES

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

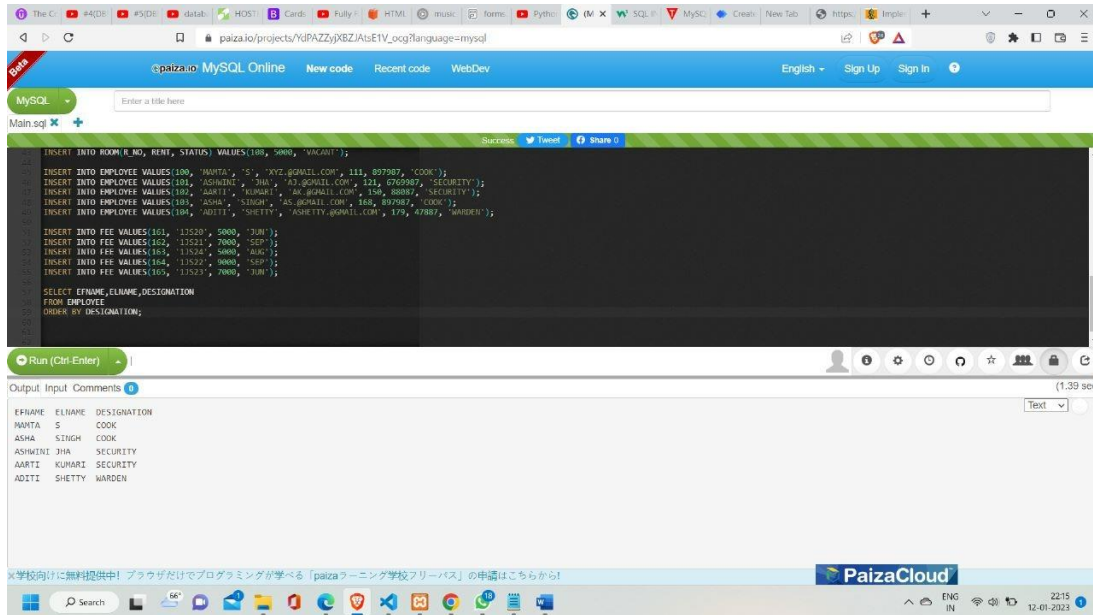
```
INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(207, 4000, 'VACANT');
INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(108, 5000, 'VACANT');
INSERT INTO EMPLOYEE VALUES(100, 'NARITA', 'S', 'XYZ@gmail.com', 111, 897987, 'COOK');
INSERT INTO EMPLOYEE VALUES(101, 'ASHWINI', 'SMA', 'AS@gmail.com', 121, 6769887, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(102, 'ADITI', 'KUMARI', 'AK@gmail.com', 159, 88887, '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, '13520', 5000, 'JUN');
INSERT INTO FEE VALUES(162, '13521', 7000, 'SEP');
INSERT INTO FEE VALUES(163, '13522', 5000, 'AUG');
INSERT INTO FEE VALUES(164, '13523', 9000, 'SEP');
INSERT INTO FEE VALUES(165, '13524', 7000, 'JUN');

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

SFNAME	SLNAME	COURSE
NIDHAGWINI		OCGI
NIDHA	PANDEY	CSE
VARSHA	M	CSE
KHUSHI	RANI	CSE
ISHIKA	SHARMA	CSE

4) LIST THE EMPLOYEE BASED ON THE DESIGNATION

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



The screenshot shows the Paiza Online MySQL IDE interface. The editor contains several SQL queries. The first query is a SELECT statement to list employees by designation. Below the editor, the 'Run' button is visible, and the output window shows the results of the query.

```
INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(100, 5000, 'VACANT');
INSERT INTO EMPLOYEE VALUES(100, 'MAMTA', 'S', 'XYZ@gmail.com', 111, 897987, 'COOK');
INSERT INTO EMPLOYEE VALUES(101, 'ASHWINI', 'JHA', 'AS@gmail.com', 112, 896987, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(102, 'AARTI', 'KUMARI', 'AA@gmail.com', 154, 88887, '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, 47987, 'WARDEN');
INSERT INTO FEE VALUES(101, 11520, 5000, 'JUN');
INSERT INTO FEE VALUES(102, 11520, 7000, 'SEP');
INSERT INTO FEE VALUES(103, 11520, 5000, 'AUG');
INSERT INTO FEE VALUES(104, 11520, 9000, 'SEP');
INSERT INTO FEE VALUES(105, 11520, 7000, 'JUN');

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

Output:

EFNAME	ELNAME	DESIGNATION
MAMTA	S	COOK
ASHA	SINGH	COOK
ASHWINI	JHA	SECURITY
AARTI	KUMARI	SECURITY
ADITI	SHETTY	WARDEN

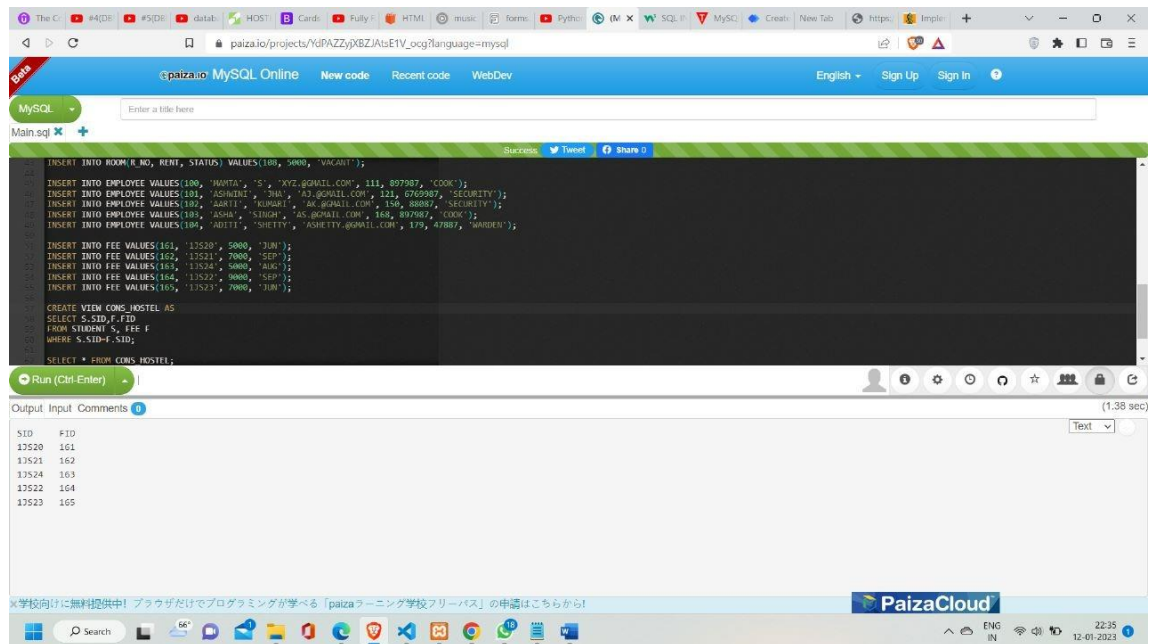
5) CREATE ASSERTION TO CHECK AGE OF STUDENT GREATER THAN 18

```
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;



The screenshot shows the Paiza.io MySQL Online interface. The top navigation bar includes 'MySQL', 'New code', 'Recent code', 'WebDev', 'English', 'Sign Up', and 'Sign In'. The main editor area contains the following SQL code:

```
INSERT INTO ROOM(R_NO, RENT, STATUS) VALUES(100, 5000, 'VACANT');
INSERT INTO EMPLOYEE VALUES(100, 'MANITA', 'S', 'XYZ@gmail.com', 111, 897987, 'COOK');
INSERT INTO EMPLOYEE VALUES(101, 'ASWINI', 'SWR', 'AJ@gmail.com', 121, 676987, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(102, 'ASHU', 'TUPRST', 'AK@gmail.com', 150, 80887, 'SECURITY');
INSERT INTO EMPLOYEE VALUES(103, 'ASHA', 'SINGH', 'AS@gmail.com', 160, 897987, 'COOK');
INSERT INTO EMPLOYEE VALUES(104, 'ADITI', 'SHETTY', 'ASHETTY@gmail.com', 179, 47887, 'WARDEN');
INSERT INTO FEE VALUES(101, '17520', 5000, 'JUN');
INSERT INTO FEE VALUES(102, '17521', 7000, 'SEP');
INSERT INTO FEE VALUES(103, '17524', 5000, 'JUN');
INSERT INTO FEE VALUES(104, '17522', 9000, 'SEP');
INSERT INTO FEE VALUES(105, '17523', 7000, 'JUN');
CREATE VIEW CONS_HOSTEL AS
SELECT S.SID, F.FID
FROM STUDENT S, FEE F
WHERE S.SID=F.SID;
SELECT * FROM CONS_HOSTEL;
```

The output section shows the following results:

SID	FID
17520	101
17521	102
17524	103
17522	104
17523	105

The interface also includes a 'Run (Ctrl-Enter)' button, a 'Text' output format selector, and a 'PaizaCloud' logo at the bottom.

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