# HOSTEL MANAGEMENT SYSTEM


DATABASE MANAGEMENT SYSTEM PROJECT REPORT

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**WARANGAL**

**TELANGANA, 506004**

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**PROBLEM STATEMENT:**

In this project, we have designed a database management system to store and manage the information about a student's details, Hostel allotment and Complaint management. The Database will contain important information about the students Hostel allotment and issues faced by students in hostels. This Database will contain the students' details, hostel allotment details, hostel and room details, payment details, worker details and complaints filed by students. This Database will help the students and officials during the Room allotment process and lets them know about the complaint status i.e., whether the complaint raised by student is resolved or not.

**ASSUMPTONS:**

1. One Student can be allotted only one room.
2. A hostel is completely for male or completely for female.
3. Multiple Hostels can Have same Room number.
4. One Worker can simultaneously work on many queries.
5. One student can launch any number of complaints.

**TABLES:**

**Students:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Stu_roll_no | Varchar(9) | Primary key |
| Stu_name | Varchar(30) | NOT NULL |
| Stu_dept | Varchar(10) | NOT NULL |
| Stu_ph_no | Varchar(10) | Unique |
| Email | Varchar(20) | Unique |
| Gender | Varchar(6) | NOT NULL |
| Stu_year | Int | NOT NULL |
| Password | Varchar(16) | NOT NULL |

**Hostel:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Hostel_id | Varchar(10) | Primary key |
| Hostel_name | Varchar(10) | NOT NULL |
| Rooms_capacity | Int | NOT NULL |
| Annual fee | Int | NOT NULL |
| Gender | Varchar(5) | NOT NULL |

**Room:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Room_no | Varchar(6) | Primary key |
| Hostel_id | Varchar(10) | |
| Capacity | Int | NOT NULL |
| Status | bool | NOT NULL |

**Work:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Work_dept_id | Varchar(10) | Primary key |
| Dept_name | Varchar(10) | NOT NULL |

**Workers:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Worker_id | Varchar(10) | Primary key |
| Worker_name | Varchar(30) | NOT NULL |
| Worker_ph_no | Varchar(10) | Unique |
| Work_dept_id | Varchar(10) | Foreign key |
| Active | Bool | NOT NULL |
| Complaints_resolved | Int | NOT NULL |

**Mess:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Mess_id | Varchar(10) | Primary key |
| Mess_name | Varchar(15) | NOT NULL |
| Per_day_cost | Int | NOT NULL |
| Mess_incharge | Varchar(10) | NOT NULL |
| Contractor | Varchar(15) | NOT NULL |

**Allotment:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Payment_id | Varchar(10) | Primary key |
| Payment_amount | Int | NOT NULL |
| Payment_date | Date | NOT NULL |
| Hostel_id | Varchar(10) | Foreign key |
| Room_no | Varchar(6) | Foreign key |
| Stu_roll_no | Varchar(9) | Foreign key |
| Mess_id | Varchar(15) | Foreign key |

**Complaints:**

| Attributes | Datatypes | Constraints |
|---|---|---|
| Complaint_id | Varchar(10) | Primary key |
| Stu_roll_no | Varchar(9) | Foreign key |
| Work_dept_id | Varchar(10) | Foreign key |
| Room_no | Varchar(6) | Foreign key |
| Hostel_id | Varchar(10) | Foreign key |
| Complaint | Varchar(100) | NOT NULL |
| Worker_id | Varchar(10) | Foreign key |
| Resolved | bool | NOT NULL |

## FUNCTIONAL DEPENDENCIES AND PRIMARY KEY:

**1. Students:**

Stu_roll_no → {Stu_name, Stu_dept, Stu_ph_no, Email, Gender, Stu_year, Password}

Since all the fields depend on Stu_roll_no, (Stu_roll_no) + → R.

Hence, Stu_roll_no is a primary key.

**2. Hostel:**

Hostel_id → { Hostel_name, Rooms_capcity, Annual_fee, Gender}

Since all the fields depend on Hostel_name, (Hostel_name) + → R.

Hence, Hostel_name is a primary key.

**3. Room:**

(Room_no, Hostel_id) → {capacity, Status}

Since all the fields depend on (Room_no, Hostel_id), (Room_no, Hostel_id)+ → R.

Hence, (Room_no, Hostel_id) is a primary key.

**4. Work:**

Work_dept_id → {dept_name}

Since all the fields depend on Work_dept_id, (Work_dept_id) + → R.

Hence, Work_dept_id is a primary key.

**5. Workers:**

Worker_id → {Worker_name, Worker_ph_no, Work_dept_id, Active, Complaints_resolved}

Since all the fields depend on Worker_id, (Worker_id) + → R.

Hence, Worker_id is a primary key.

**6. Mess:**

Mess_id → {Mess_name, Per_day_cost, Mess_incharge, Contractor}

Since all the fields depend on Mess_id, (Mess_id) + → R.

Hence, Mess_id is a primary key.

**7. Allotment:**

Payment_id → {Payment_amount, Payment_date, Hostel_id, Room_no, Stu_roll_no, Mess_id}

Since all the fields depend on Payment_id, (Payment_id) + → R.

Hence, Payment_id is a primary key.

**8. Complaints:**

{Complaint_id} → {Stu_roll_no, Work_dept_id, Room_no, Hostel_id, Complaint, Worker_id, Resolved}

Since all the fields depend on (Complaint_id) + → R.

Hence, (Complaint_id) is a primary key.

**NORMAISATION:**

**1. Student:**

Primary key: Stu_roll_no

All attributes depend on the Stu_roll_no, hence the table is in 2NF.

All attributes depend directly on Stu_roll_no, hence the table is in 3NF.

All determinants (Stu_roll_no) is Super key, hence the table is in BCNF.

**2. Hostel:**

Primary key: Hostel_id

All attributes depend on the Hostel_id, hence the table is in 2NF.

All attributes depend directly on Hostel_id, hence the table is in 3NF.

All determinants (Hostel_id) is Super key, hence the table is in BCNF.

**3. Room:**

Primary key: Room_no

All attributes depend on the Room_no, hence the table is in 2NF.

All attributes depend directly on Room_no, hence the table is in 3NF.

All determinants (Room_no) is Super key, hence the table is in BCNF.

**4. Work:**

Primary key: Work_dept_id

All attributes depend on the Work_dept_id, hence the table is in 2NF.

All attributes depend directly on Work_dept_id, hence the table is in 3NF.

All determinants (Work_dept_id) is Super key, hence the table is in BCNF.

**5. Workers:**

Primary key: Worker_id

All attributes depend on the Worker_id, hence the table is in 2NF.

All attributes depend directly on Worker_id, hence the table is in 3NF.

All determinants (Worker_id) is Super key, hence the table is in BCNF.

**6. Mess:**

Primary key: Mess_id

All attributes depend on the Mess_id, hence the table is in 2NF.

All attributes depend directly on Mess_id, hence the table is in 3NF.

All determinants (Mess_id) is Super key, hence the table is in BCNF.

**7. Allotment:**

Primary key: Payment_id

All attributes depend on the Payment_id, hence the table is in 2NF.

All attributes depend directly on Payment_id, hence the table is in 3NF.

All determinants (Payment_id) is Super key, hence the table is in BCNF.

**8. Complaints:**

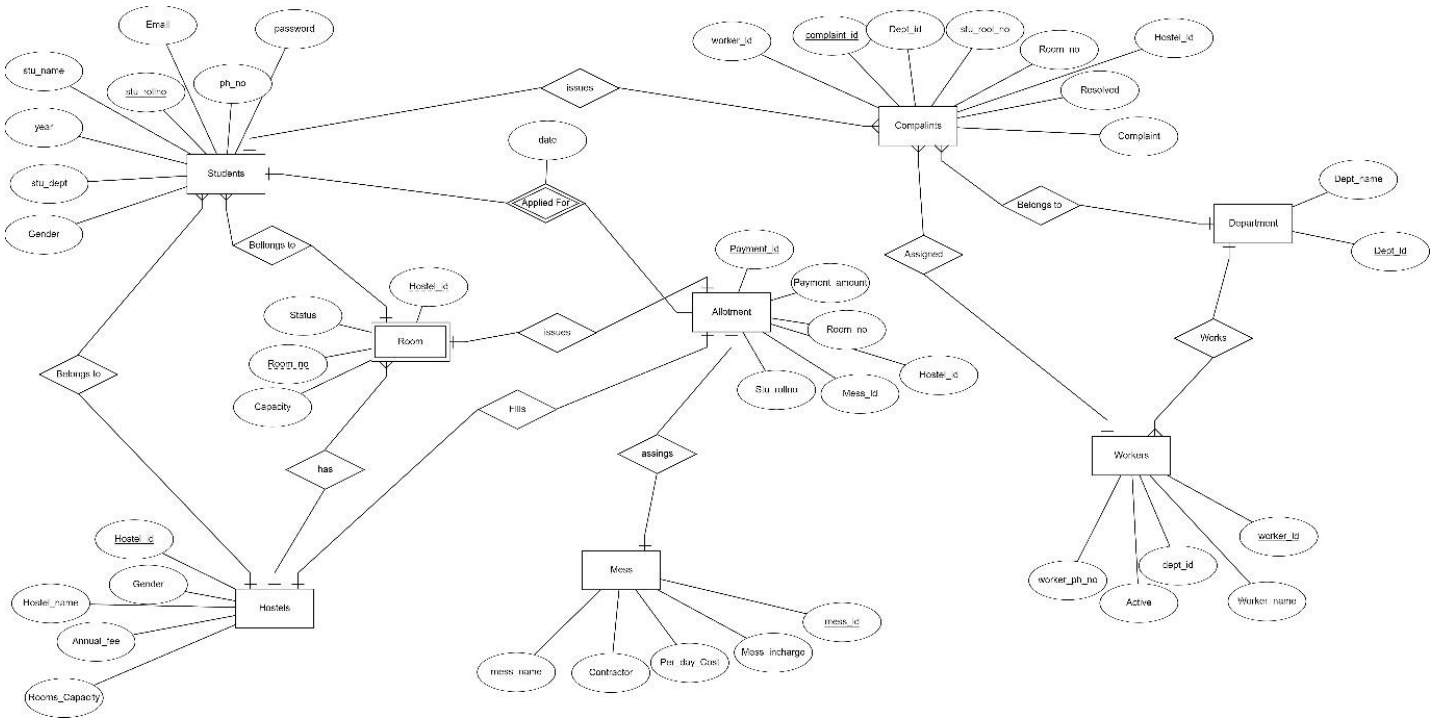
Primary key: Complaint_id

All attributes depend on the Complaint_id, hence the table is in 2NF.

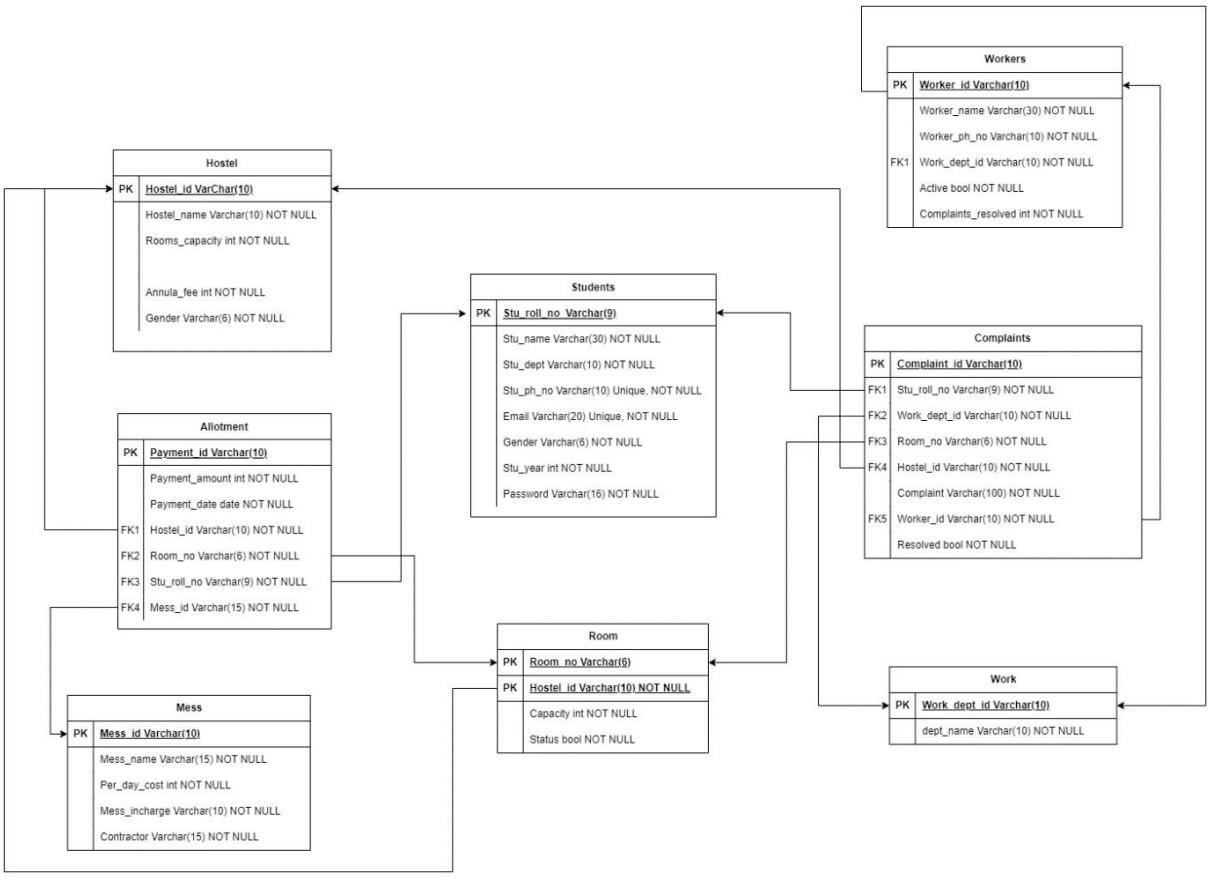
All attributes depend directly on Complaint_id, hence the table is in 3NF.

All determinants (Complaint_id) is Super key, hence the table is in BCNF.

## ER DIAGRAM:




## RELATIONAL SCHEMA:



**MYSQL CODES:**

**Creating Tables:**

```
CREATE DATABASE HOSTEL_MANAGEMENT_SYSTEM;
```

```
CREATE TABLE Students(
    Stu_roll_no varchar(9) PRIMARY KEY,
    Stu_name varchar(30) NOT NULL,
    Stu_dept varchar(10) NOT NULL,
    Stu_ph_no varchar(10) UNIQUE,
    Email varchar(20) UNIQUE,
    Gender varchar(6) NOT NULL,
    Stu_year int NOT NULL,
    Password varchar(16) NOT NULL
)
```

```
CREATE TABLE Hostel(
    Hostel_id varchar(10) PRIMARY KEY,
    Hostel_name varchar(10) NOT NULL,
    Rooms_capacity int NOT NULL,
    Annual_fee int NOT NULL,
    Gender varchar(6) NOT NULL
)
```

```
CREATE TABLE Room(
    Room_no varchar(6),
    Hostel_id varchar(10),
    Capacity int NOT NULL,
    Status bool NOT NULL,
    PRIMARY KEY(Room_no, Hostel_id),
    FOREIGN KEY(Hostel_id) REFERENCES Hostel(Hostel_id) ON DELETE CASCADE
)
```

```
CREATE TABLE Work(
    Work_dept_id Varchar(10) PRIMARY KEY,
    Dept_name varchar(10) NOT NULL
)
```

```sql
CREATE TABLE Workers(
    Worker_id varchar(10) PRIMARY KEY,
    Worker_name varchar(30) NOT NULL,
    Worker_ph_no varchar(10) UNIQUE,
    Work_dept_id varchar(10),
    Active bool NOT NULL,
    Complaints_resolved int NOT NULL,
    FOREIGN KEY (Work_dept_id) REFERENCES Work(Work_dept_id) ON DELETE SET NULL
)
```

```sql
CREATE TABLE Mess(
    Mess_id varchar(10) PRIMARY KEY,
    Mess_name varchar(15) NOT NULL,
    Per_day_cost int NOT NULL,
    Mess_incharge varchar(10) NOT NULL,
    Contractor varchar(15) NOT NULL
)
```

```sql
CREATE TABLE Allotment(
    Payment_id varchar(10) PRIMARY KEY,
    Payment_amount int NOT NULL,
    Payment_date date NOT NULL,
    Hostel_id varchar(10),
    Room_no varchar(6),
    Stu_roll_no varchar(9),
    Mess_id varchar(15),
    FOREIGN KEY (Hostel_id) REFERENCES Hostel(Hostel_id) ON DELETE SET NULL,
    FOREIGN KEY (Room_no) REFERENCES Room(Room_no) ON DELETE SET NULL,
    FOREIGN KEY (Stu_roll_no) REFERENCES Students(Stu_roll_no) ON DELETE SET NULL,
    FOREIGN KEY (Mess_id) REFERENCES Mess(Mess_id) ON DELETE SET NULL
)
```

```sql
CREATE TABLE Complaints(
    Complaint_id varchar(10) PRIMARY KEY,
    Stu_roll_no varchar(9),
    Work_dept_id varchar(10),
    Room_no varchar(6),
    Hostel_id varchar(10),
    Complaint varchar(100) NOT NULL,
    Worker_id varchar(10),
    Resolved bool DEFAULT false,
    FOREIGN KEY (Stu_roll_no) REFERENCES Students(Stu_roll_no) ON DELETE SET NULL,
    FOREIGN KEY (Work_dept_id) REFERENCES Work(Work_dept_id) ON DELETE SET NULL,
    FOREIGN KEY (Room_no) REFERENCES Room(Room_no) ON DELETE SET NULL,
    FOREIGN KEY (Hostel_id) REFERENCES Hostel(Hostel_id) ON DELETE SET NULL,
    FOREIGN KEY (Worker_id) REFERENCES Workers(Worker_id) ON DELETE SET NULL
)
```

**INSERTING DATA:**

```
INSERT INTO students VALUES('100','Abhinay Challa','EEE','9876543210','ac@gmail.com','male',2,'password123');
INSERT INTO students VALUES('101','Nikhil Boob','EEE','9638520741','nb@gmail.com','male',2,'qwerty123');
INSERT INTO students VALUES('102','Vignesh Bejugam','EEE','9517418263','vb@gmail.com','male',2,'asdf123');
INSERT INTO students VALUES('103','Kushpal Singh','CSE','7896541230','ks@gmail.com','male',3,'ksbr');
INSERT INTO students VALUES('113','Sravani T','BT','8526331454','st@gmail.com','female',4,'tsravs');
INSERT INTO students VALUES('109','Vinod konda','MME','7412566902','kv@gmail.com','male',3,'vkks');
INSERT INTO students VALUES('104','Krishna K V','MED','8529637410','kvksc@gmail.com','male',2,'kvkscmed');
INSERT INTO students VALUES('115','Vaishnavi k','MED','8523600142','vkv@gmail.com','female',3,'kvsv10');
INSERT INTO students VALUES('105','Rajasekhar k','CED','6985741230','rk@gmail.com','male',4,'lambu');
INSERT INTO students VALUES('116','Priyanka R','MME','7852001414','pri@gmail.com','female',2,'priyar45');
INSERT INTO students VALUES('111','Rishik YS','Chem','6521493335','ysr@gmail.com','male',4,'ysr69');
INSERT INTO students VALUES('106','Revanth Itte','EEE','8625147963','riit@gmail.com','male',4,'iitrpr');
INSERT INTO students VALUES('112','Sree Harshitha','MED','7569819555','sh@gmail.com','female',2,'csh18');
INSERT INTO students VALUES('118','Irfan M','CED','9632541086','irfm@gmail.com','male',2,'mdirfan786');
INSERT INTO students VALUES('117','Varshini B','ECE','9636985258','varb@gmail.com','female',2,'varshaa');
INSERT INTO students VALUES('107','Ravichandra k','CSE','7569284162','rck@gmail.com','male',3,'ravipuli');
INSERT INTO students VALUES('114','Madhavi P','Chem','7895412630','mp@gmail.com','female',3,'mpcamp');
INSERT INTO students VALUES('119','Naveen NS','CSE','8500102030','nss@gmail.com','male',2,'naveensir');
INSERT INTO students VALUES('110','Preetham P','BT','8562149003','pp@gmail.com','male',2,'ppandiri');
INSERT INTO students VALUES('108','Roshan kumar','ECE','8526314925','ark@gmail.com','male',4,'arkab');
```

```
INSERT INTO Hostel VALUES('hst1','Ultra Mega',1800,10000,'male');
INSERT INTO Hostel VALUES('hst2','Mega',1000,9000,'male');
INSERT INTO Hostel VALUES('4blk','Block 4',48,9500,'male');
INSERT INTO Hostel VALUES('6blk','Block 6',48,9500,'male');
INSERT INTO Hostel VALUES('3blk','Block 3',48,9500,'male');
INSERT INTO Hostel VALUES('LHA','Ladies A',500,12500,'female');
INSERT INTO Hostel VALUES('LHB','Ladies B',500,12500,'female');
INSERT INTO Hostel VALUES('LHC','Ladies C',500,12500,'female');
```

```
INSERT INTO Room VALUES('3104','3blk',3,true);
INSERT INTO Room VALUES('6304','6blk',3,false);
INSERT INTO Room VALUES('B101','hst1',2,true);
INSERT INTO Room VALUES('4307','4blk',3,true);
INSERT INTO Room VALUES('1216','LHA',2,true);
INSERT INTO Room VALUES('3225','hst2',2,true);
INSERT INTO Room VALUES('A305','hst1',2,true);
INSERT INTO Room VALUES('8808','LHB',2,true);
INSERT INTO Room VALUES('6212','6blk',3,false);
INSERT INTO Room VALUES('1312','LHC',3,true);
INSERT INTO Room VALUES('1418','LHC',3,false);
INSERT INTO Room VALUES('3117','LHC',3,true);
INSERT INTO Room VALUES('2345','hst2',2,true);
INSERT INTO Room VALUES('B106','hst1',2,false);
INSERT INTO Room VALUES('3232','LHA',2,false);
```

```sql
INSERT INTO work VALUES('CP', 'Carpentry');
INSERT INTO work VALUES('CL', 'Cleaning');
INSERT INTO work VALUES('PB', 'Plumber');
INSERT INTO work VALUES('EC', 'Electric');
INSERT INTO work VALUES('LA', 'Lan');
```

```sql
INSERT INTO workers VALUES('PB1','Ramesh','8523695147','PB',true,10);
INSERT INTO workers VALUES('EC1','Suresh','7469258145','EC',false,16);
INSERT INTO workers VALUES('CP1','Mukesh','7895741826','CP',true,8);
INSERT INTO workers VALUES('PB2','Ambani','9598362145','PB',false,15);
INSERT INTO workers VALUES('CL1','Ramu','8521436259','CL',true,14);
INSERT INTO workers VALUES('EC2','Sharma','9625147836','EC',true,25);
INSERT INTO workers VALUES('CL2','Shreyas','9558471114','CL',true,17);
INSERT INTO workers VALUES('LA1','Rakesh','6522415786','LA',true,12);
```

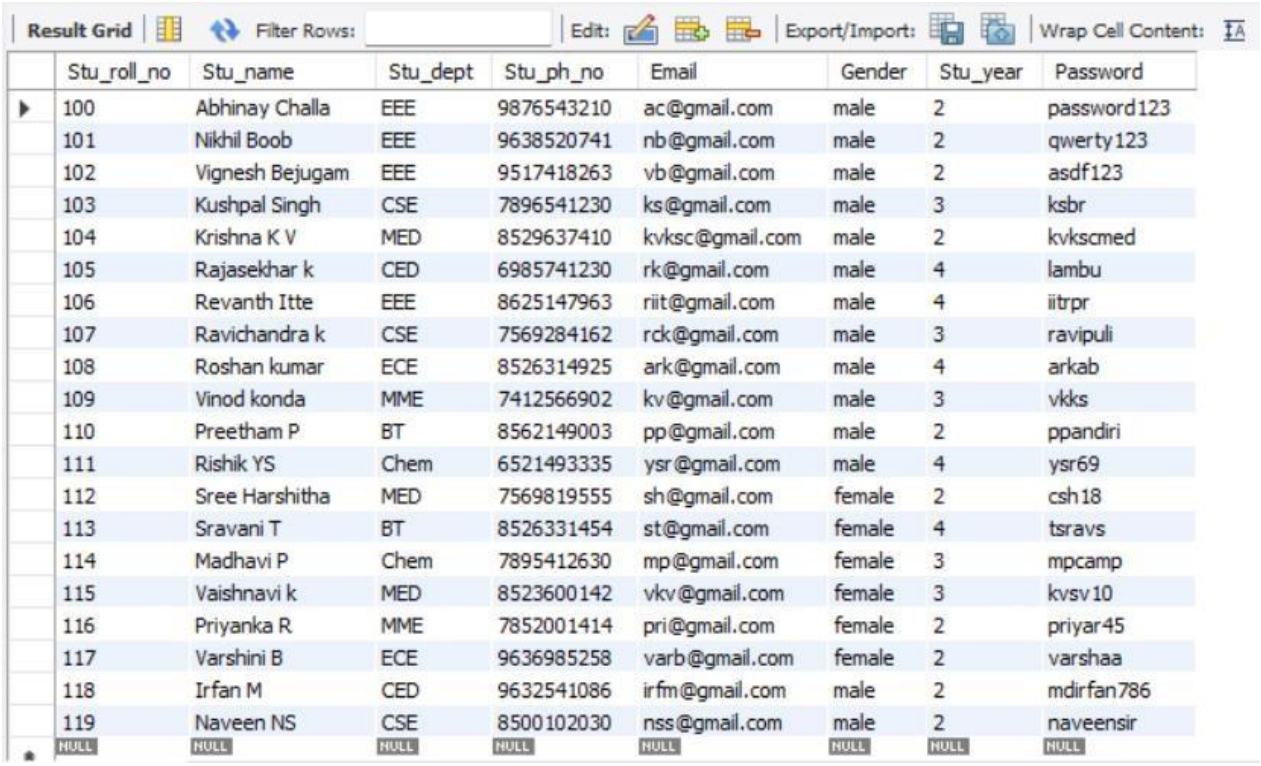
```sql
INSERT INTO Mess VALUES('mb1','IFCA',115,'Dr.Kishore','Suresh');
INSERT INTO Mess VALUES('mb2','IFCB',115,'Dr.Raghu','Arun');
INSERT INTO Mess VALUES('mb3','IFCC',115,'Dr.Yousuf','Srikanth');
INSERT INTO Mess VALUES('mg1','IFCG',115,'Dr.Vennela','Sujatha');
```

```sql
INSERT INTO allotment VALUES('360100',9500,'2023-06-24','3blk','3104','109','mb3');
INSERT INTO allotment VALUES('360101',10000,'2023-06-23','hst1','B101','105','mb1');
INSERT INTO allotment VALUES('360102',12500,'2023-06-20','LHA','1216','114','mg1');
INSERT INTO allotment VALUES('360103',9500,'2023-06-23','4blk','4307','111','mb3');
INSERT INTO allotment VALUES('360104',9000,'2023-06-19','hst2','3225','108','mb2');
INSERT INTO allotment VALUES('360105',10000,'2023-06-17','hst1','A305','100','mb1');
INSERT INTO allotment VALUES('360106',12500,'2023-06-22','LHC','3117','113','mg1');
INSERT INTO allotment VALUES('360107',12500,'2023-06-21','LHC','3117','116','mg1');
INSERT INTO allotment VALUES('360108',9000,'2023-06-25','hst2','3225','110','mb2');
INSERT INTO allotment VALUES('360109',9500,'2023-06-25','4blk','4307','102','mb3');
INSERT INTO allotment VALUES('360110',9500,'2023-06-25','4blk','4307','118','mb3');
INSERT INTO allotment VALUES('360111',10000,'2023-06-24','hst1','B101','103','mb1');
INSERT INTO allotment VALUES('360112',12500,'2023-06-23','LHC','1312','115','mg1');
INSERT INTO allotment VALUES('360113',7000,'2023-06-24','LHA','1216','112','mg1');
INSERT INTO allotment VALUES('360114',7000,'2023-06-22','LHB','8808','117','mg1');
INSERT INTO allotment VALUES('360115',9000,'2023-06-21','hst2','2345','106','mb2');
```

```sql
INSERT INTO complaints VALUES('cb01','100','PB','A305','hst1','Tap Leakage','PB1',false);
INSERT INTO complaints VALUES('cb02','102','EC','4307','4blk','Fan slow','EC1',true);
INSERT INTO complaints VALUES('cb03','109','LA','3104','3blk','Lan not working','LA1',true);
INSERT INTO complaints VALUES('cb04','110','CL','3225','hst2','Room cleaning','CL1',true);
INSERT INTO complaints VALUES('cb05','105','CP','B101','hst1','Chair broken','CP1',true);
INSERT INTO complaints VALUES('cg01','114','LA','1216','LHA','Lan Port broken','LA1',false);
INSERT INTO complaints VALUES('cg02','116','EC','1312','LHC','Light not working','EC2',false);
```

**TABLES:**

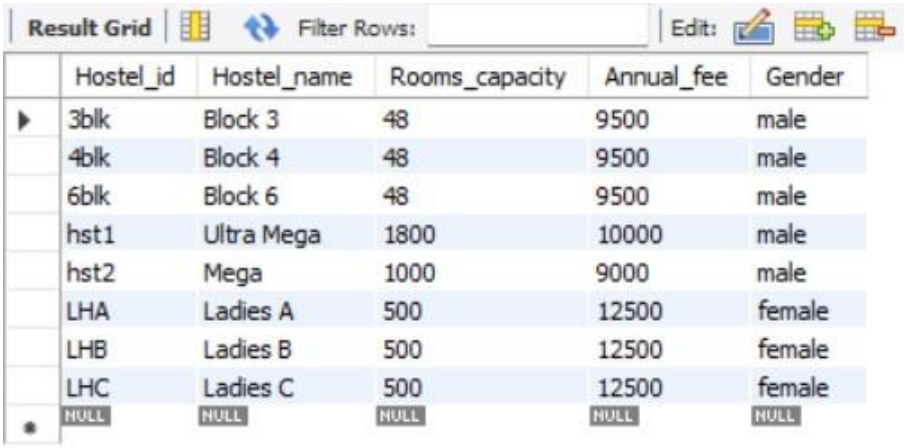
**1. Students:**



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

| Stu_roll_no | Stu_name | Stu_dept | Stu_ph_no | Email | Gender | Stu_year | Password |
|---|---|---|---|---|---|---|---|
| 100 | Abhinay Challa | EEE | 9876543210 | ac@gmail.com | male | 2 | password123 |
| 101 | Nikhil Boob | EEE | 9638520741 | nb@gmail.com | male | 2 | qwerty123 |
| 102 | Vignesh Bejugam | EEE | 9517418263 | vb@gmail.com | male | 2 | asdf123 |
| 103 | Kushpal Singh | CSE | 7896541230 | ks@gmail.com | male | 3 | ksbr |
| 104 | Krishna K V | MED | 8529637410 | kvksc@gmail.com | male | 2 | kvkscmed |
| 105 | Rajasekhar k | CED | 6985741230 | rk@gmail.com | male | 4 | lambu |
| 106 | Revanth Itte | EEE | 8625147963 | riit@gmail.com | male | 4 | iitrpr |
| 107 | Ravichandra k | CSE | 7569284162 | rck@gmail.com | male | 3 | ravipuli |
| 108 | Roshan kumar | ECE | 8526314925 | ark@gmail.com | male | 4 | arkab |
| 109 | Vinod konda | MME | 7412566902 | kv@gmail.com | male | 3 | vkks |
| 110 | Preetham P | BT | 8562149003 | pp@gmail.com | male | 2 | ppandiri |
| 111 | Rishik YS | Chem | 6521493335 | ysr@gmail.com | male | 4 | ysr69 |
| 112 | Sree Harshitha | MED | 7569819555 | sh@gmail.com | female | 2 | csh18 |
| 113 | Sravani T | BT | 8526331454 | st@gmail.com | female | 4 | tsravs |
| 114 | Madhavi P | Chem | 7895412630 | mp@gmail.com | female | 3 | mpcamp |
| 115 | Vaishnavi k | MED | 8523600142 | vkv@gmail.com | female | 3 | kvsv10 |
| 116 | Priyanka R | MME | 7852001414 | pri@gmail.com | female | 2 | priyar45 |
| 117 | Varshini B | ECE | 9636985258 | varb@gmail.com | female | 2 | varshaa |
| 118 | Irfan M | CED | 9632541086 | irfm@gmail.com | male | 2 | mdirfan786 |
| 119 | Naveen NS | CSE | 8500102030 | nss@gmail.com | male | 2 | naveensir |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

**2. Hostel:**



Result Grid | Filter Rows: | Edit:

| Hostel_id | Hostel_name | Rooms_capacity | Annual_fee | Gender |
|---|---|---|---|---|
| 3blk | Block 3 | 48 | 9500 | male |
| 4blk | Block 4 | 48 | 9500 | male |
| 6blk | Block 6 | 48 | 9500 | male |
| hst1 | Ultra Mega | 1800 | 10000 | male |
| hst2 | Mega | 1000 | 9000 | male |
| LHA | Ladies A | 500 | 12500 | female |
| LHB | Ladies B | 500 | 12500 | female |
| LHC | Ladies C | 500 | 12500 | female |
| NULL | NULL | NULL | NULL | NULL |

**3. Room:**

Result Grid | Filter Rows:

| Room_no | Hostel_id | Capacity | Status |
|---|---|---|---|
| 1216 | LHA | 2 | 1 |
| 1312 | LHC | 3 | 1 |
| 1418 | LHC | 3 | 0 |
| 2345 | hst2 | 2 | 1 |
| 3104 | 3blk | 3 | 1 |
| 3117 | LHC | 3 | 1 |
| 3225 | hst2 | 2 | 1 |
| 3232 | LHA | 2 | 0 |
| 4307 | 4blk | 3 | 1 |
| 6212 | 6blk | 3 | 0 |
| 6304 | 6blk | 3 | 0 |
| 8808 | LHB | 2 | 1 |
| A305 | hst1 | 2 | 1 |
| B101 | hst1 | 2 | 1 |
| B106 | hst1 | 2 | 0 |
| NULL | NULL | NULL | NULL |

ROOM 1 ×

**4. Work:**

Result Grid | Filter Rows:

| Work_dept_id | Dept_name |
|---|---|
| CL | Cleaning |
| CP | Carpentry |
| EC | Electric |
| LA | Lan |
| PB | Plumber |
| NULL | NULL |

work 2 ×

**5. Workers:**

Result Grid | Filter Rows: | Edit: | Export/Import:

| Worker_id | Worker_name | Worker_ph_no | Work_dept_id | Active | Complaints_resolved |
|---|---|---|---|---|---|
| CL1 | Ramu | 8521436259 | CL | 1 | 14 |
| CL2 | Shreyas | 9558471114 | CL | 1 | 17 |
| CP1 | Mukesh | 7895741826 | CP | 1 | 8 |
| EC1 | Suresh | 7469258145 | EC | 0 | 16 |
| EC2 | Sharma | 9625147836 | EC | 1 | 25 |
| LA1 | Rakesh | 6522415786 | LA | 1 | 12 |
| PB1 | Ramesh | 8523695147 | PB | 1 | 10 |
| PB2 | Ambani | 9598362145 | PB | 0 | 15 |
| NULL | NULL | NULL | NULL | NULL | NULL |

workers 2 ×

**6. Mess:**

Result Grid | Filter Rows: | Edit:

| Mess_id | Mess_name | Per_day_cost | Mess_incharge | Contractor |
|---|---|---|---|---|
| mb1 | IFCA | 115 | Dr.Kishore | Suresh |
| mb2 | IFCB | 115 | Dr.Raghu | Arun |
| mb3 | IFCC | 115 | Dr.Yousuf | Srikanth |
| mg1 | IFCG | 115 | Dr.Vennela | Sujatha |
| NULL | NULL | NULL | NULL | NULL |

**7. Allotment:**

Result Grid | Filter Rows: | Edit: | Export/Import:

| Payment_id | Payment_amount | Payment_date | Hostel_id | Room_no | Stu_roll_no | Mess_id |
|---|---|---|---|---|---|---|
| 360100 | 9500 | 2023-06-24 | 3blk | 3104 | 109 | mb3 |
| 360101 | 10000 | 2023-06-23 | hst1 | B101 | 105 | mb1 |
| 360102 | 12500 | 2023-06-20 | LHA | 1216 | 114 | mg1 |
| 360103 | 9500 | 2023-06-23 | 4blk | 4307 | 111 | mb3 |
| 360104 | 9000 | 2023-06-19 | hst2 | 3225 | 108 | mb2 |
| 360105 | 10000 | 2023-06-17 | hst1 | A305 | 100 | mb1 |
| 360106 | 12500 | 2023-06-22 | LHC | 3117 | 113 | mg1 |
| 360107 | 12500 | 2023-06-21 | LHC | 3117 | 116 | mg1 |
| 360108 | 9000 | 2023-06-25 | hst2 | 3225 | 110 | mb2 |
| 360109 | 9500 | 2023-06-25 | 4blk | 4307 | 102 | mb3 |
| 360110 | 9500 | 2023-06-25 | 4blk | 4307 | 118 | mb3 |
| 360111 | 10000 | 2023-06-24 | hst1 | B101 | 103 | mb1 |
| 360112 | 12500 | 2023-06-23 | LHC | 1312 | 115 | mg1 |
| 360113 | 7000 | 2023-06-24 | LHA | 1216 | 112 | mg1 |
| 360114 | 7000 | 2023-06-22 | LHB | 8808 | 117 | mg1 |
| 360115 | 9000 | 2023-06-21 | hst2 | 2345 | 106 | mb2 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL |

allotment 1 ×

**8. Compliants:**

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Cont

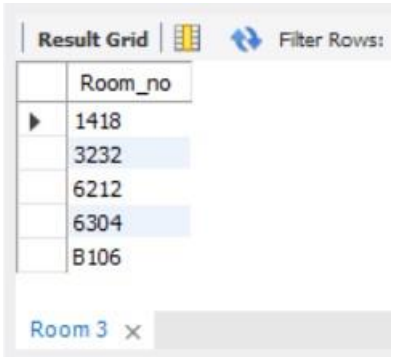
| Complaint_id | Stu_roll_no | Work_dept_id | Room_no | Hostel_id | Complaint | Worker_id | Resolved |
|---|---|---|---|---|---|---|---|
| cb01 | 100 | PB | A305 | hst1 | Tap Leakage | PB1 | 0 |
| cb02 | 102 | EC | 4307 | 4blk | Fan slow | EC1 | 1 |
| cb03 | 109 | LA | 3104 | 3blk | Lan not working | LA1 | 1 |
| cb04 | 110 | CL | 3225 | hst2 | Room cleaning | CL1 | 1 |
| cb05 | 105 | CP | B101 | hst1 | Chair broken | CP1 | 1 |
| cg01 | 114 | LA | 1216 | LHA | Lan Port broken | LA1 | 0 |
| cg02 | 116 | EC | 1312 | LHC | Light not working | EC2 | 0 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

complaints 1 ×

**QUERIES:**

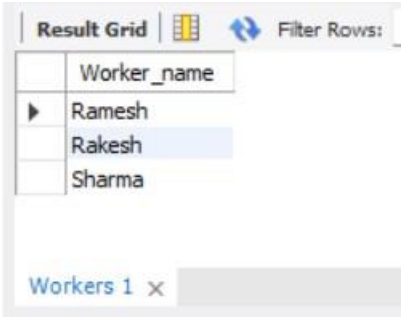
1. Display all vacant rooms.

```
select Room_no from Room where Status=false;
```



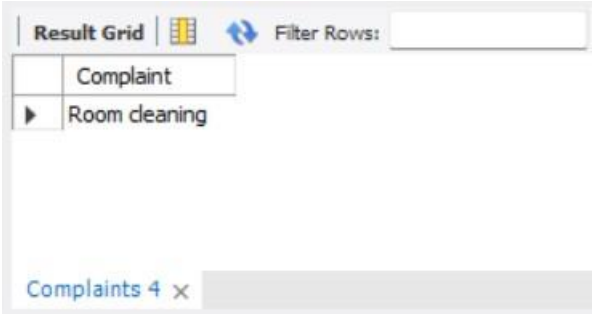

2. Display all the workers' names who have pending queries.

```
select Worker_name from Workers where Worker_id In
(select Worker_id from Complaints where Resolved = false);
```



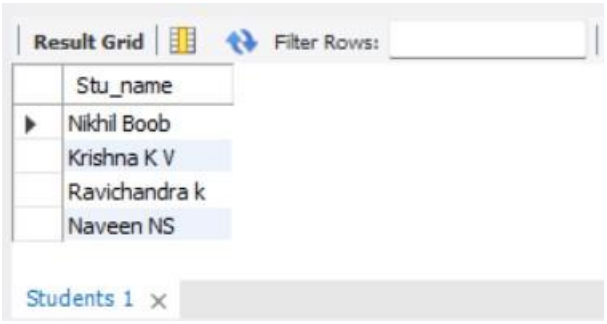

3. Display the complaints raised by the student named 'Preetham P'.

```
select Complaint from Complaints where Stu_roll_no In
(select Stu_roll_no from Students where Stu_name='Preetham P');
```



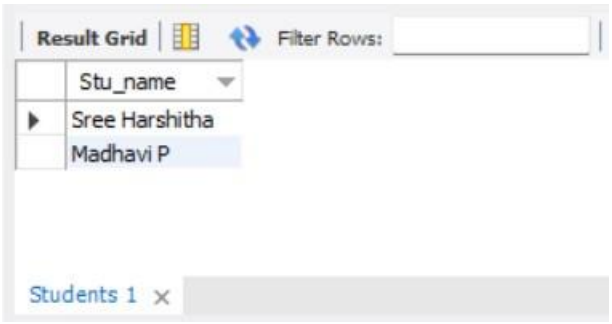

4. Display the names of all the student who have not been allotted any room.

```
select Stu_name from Students where Stu_roll_no Not IN
(select Stu_roll_no from Allotment);
```




4. Display the names of the students who were allotted the room '1216'.

```
select Stu_name from Students where Stu_roll_no In
(select Stu_roll_no from Allotment where Room_no='1216');
```




**THANK YOU**

1. BEJUGAM VIGNESH 21EEB0A14
2. CHALLA ABHINAY 21EEB0A18
3. NIKHIL BOOB 21EEB0A46