

HOSTEL MANAGEMENT SYSTEM



DATABASE MANAGEMENT SYSTEM PROJECT REPORT

By

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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.

ASSUMPTIONS:

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:

$\text{Stu_roll_no} \rightarrow \{\text{Stu_name}, \text{Stu_dept}, \text{Stu_ph_no}, \text{Email}, \text{Gender}, \text{Stu_year}, \text{Password}\}$

Since all the fields depend on Stu_roll_no, $(\text{Stu_roll_no}) + \rightarrow R$.

Hence, Stu_roll_no is a primary key.

2.Hostel:

$\text{Hostel_id} \rightarrow \{\text{Hostel_name}, \text{Rooms_capacity}, \text{Annual_fee}, \text{Gender}\}$

Since all the fields depend on Hostel_name, $(\text{Hostel_name}) + \rightarrow R$.

Hence, Hostel_name is a primary key.

3.Room:

$(\text{Room_no}, \text{Hostel_id}) \rightarrow \{\text{capacity}, \text{Status}\}$

Since all the fields depend on (Room_no, Hostel_id), $(\text{Room_no}, \text{Hostel_id}) + \rightarrow R$.

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

4.Work:

$\text{Work_dept_id} \rightarrow \{\text{dept_name}\}$

Since all the fields depend on Work_dept_id, $(\text{Work_dept_id}) + \rightarrow R$.

Hence, Work_dept_id is a primary key.

5.Workers:

$\text{Worker_id} \rightarrow \{\text{Worker_name}, \text{Worker_ph_no}, \text{Work_dept_id}, \text{Active}, \text{Complaints_resolved}\}$

Since all the fields depend on Worker_id, $(\text{Worker_id}) + \rightarrow R$.

Hence, Worker_id is a primary key.

6.Mess:

$\text{Mess_id} \rightarrow \{\text{Mess_name}, \text{Per_day_cost}, \text{Mess_incharge}, \text{Contractor}\}$

Since all the fields depend on Mess_id, $(\text{Mess_id}) + \rightarrow R$.

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:

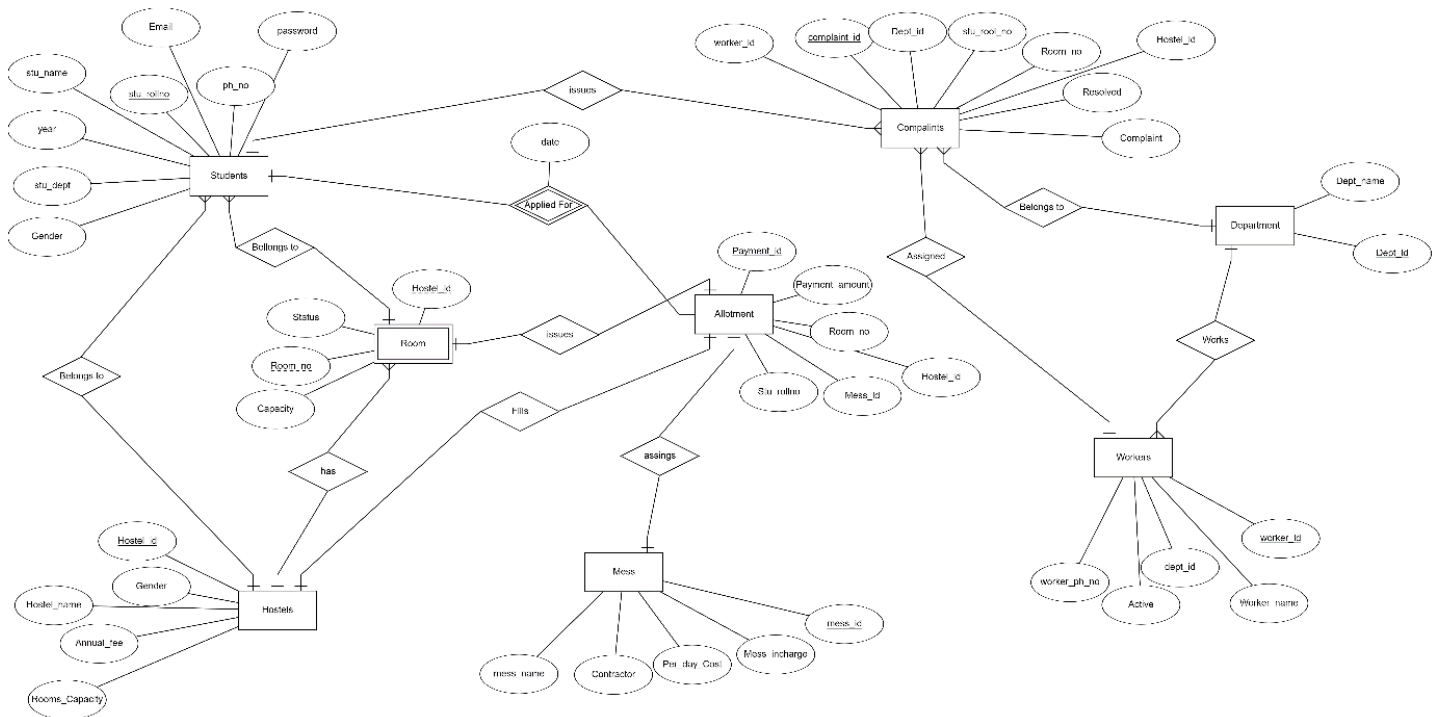
Primary key: Complaint_id

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

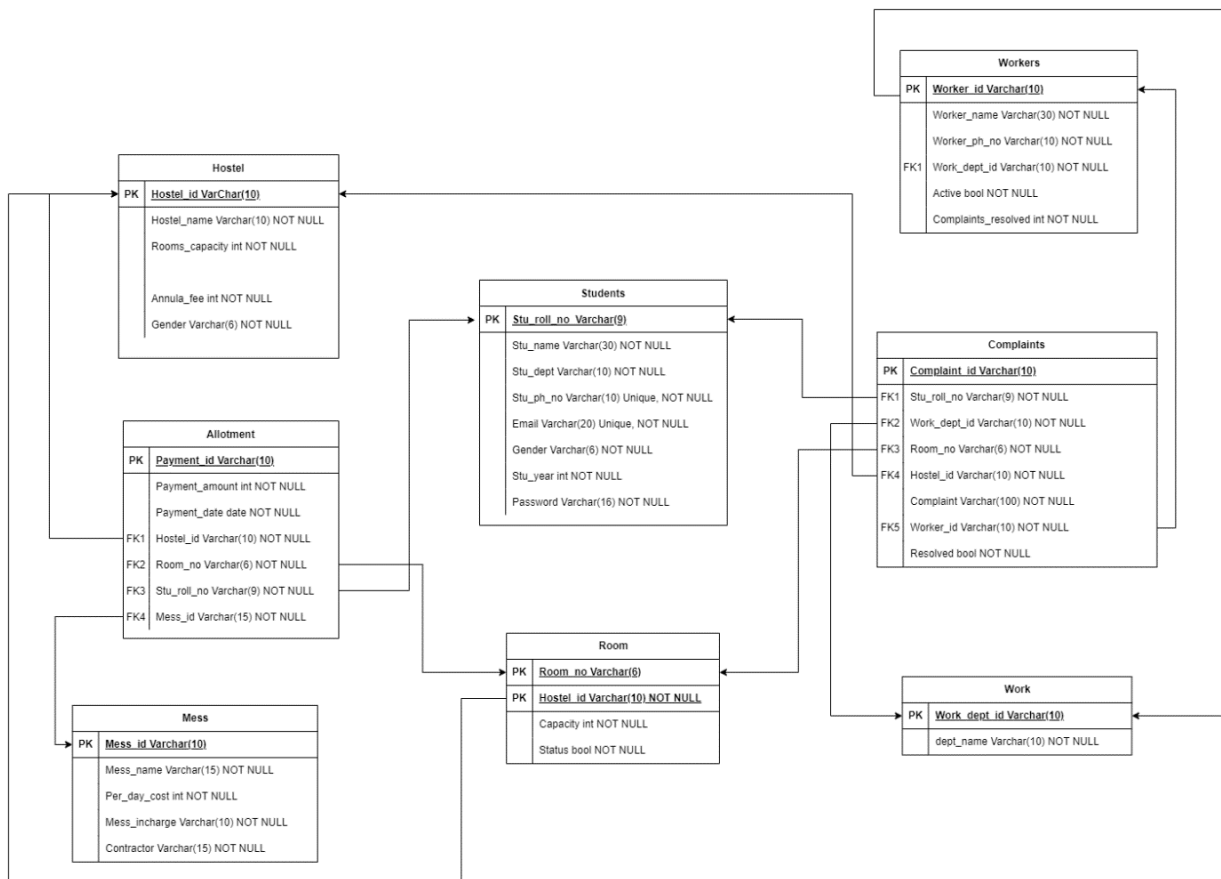
All attributes depend directly on Complaint_id, hence the table is in 3NF.

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  
)
```



```

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
)

```

```

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
)

```

```

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
)

```

```

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','kvksc@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);
```



```
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');
```

```
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);
```

```
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');
```

```
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');
```

```
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:	<input type="text"/>	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	cs18					
	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	vk@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	
▶	CL
	CP
	EC
	LA
	PB
✱	NULL

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:

[illegible]

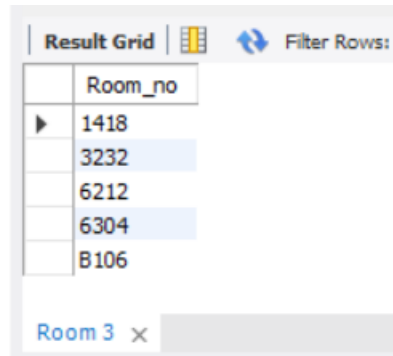
8.Compliants:

[illegible]

QUERIES:

1.Display all vacant rooms.

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

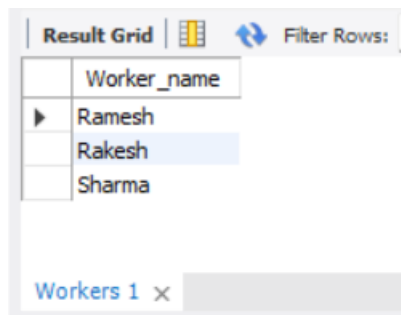


The screenshot shows a 'Result Grid' window with a 'Filter Rows' button. The table has one column, 'Room_no', and five rows of data. The first row is highlighted. Below the table, there is a tab labeled 'Room 3' with a close button.

Room_no
1418
3232
6212
6304
8106

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);
```

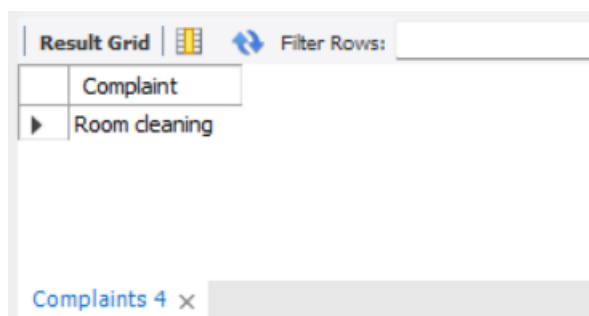


The screenshot shows a 'Result Grid' window with a 'Filter Rows' button. The table has one column, 'Worker_name', and three rows of data. The second row is highlighted. Below the table, there is a tab labeled 'Workers 1' with a close button.

Worker_name
Ramesh
Rakesh
Sharma

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');
```



The screenshot shows a 'Result Grid' window with a 'Filter Rows' button. The table has one column, 'Complaint', and one row of data. Below the table, there is a tab labeled 'Complaints 4' with a close button.

Complaint
Room cleaning

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);
```

Result Grid		Filter Rows:
	Stu_name	
▶	Nikhil Boob	
	Krishna K V	
	Ravichandra k	
	Naveen NS	

Students 1 x

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');
```

Result Grid		Filter Rows:
	Stu_name	
▶	Sree Harshitha	
	Madhavi P	

Students 1 x

THANK YOU

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