## **TABLE CREATIONS**

```
1.
CREATE TABLE room_status (
  room_id INT PRIMARY KEY,
  booking_status BOOLEAN DEFAULT FALSE,
  ac_status BOOLEAN DEFAULT FALSE,
  light status BOOLEAN DEFAULT FALSE,
  booking_time TIMESTAMP NULL,
  leaving time TIMESTAMP NULL,
  status VARCHAR(50) DEFAULT 'unoccupied'
);
2.
CREATE TABLE room config (
  room_id INT PRIMARY KEY,
 max_capacity INT,
  FOREIGN KEY (room_id) REFERENCES room_status(room_id) ON DELETE CASCADE
);
3.
CREATE TABLE occupant (
  room id INT NOT NULL,
  no_of_persons INT NOT NULL,
  PRIMARY KEY (room_id),
  FOREIGN KEY (room_id) REFERENCES room_status(room_id) ON DELETE CASCADE
 );
4.
CREATE TABLE booked rooms (
  room id INT,
  booking_time DATETIME,
  duration INT, -- Assuming duration is in minutes
  leaving_time DATETIME,
  PRIMARY KEY (room_id, booking_time),
  FOREIGN KEY (room_id) REFERENCES room_status(room_id) ON DELETE CASCADE
  );
```

## **CODE EXECUTION**

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
...Welcome to the Smart Office Management System...
Enter username: admin@ei.com
Enter password: eiadmin
Login successful!
--- Dashboard ---
1. Configure Room
2. Configure Specific Room
3. Add Occupant
4. Book Room
5. Cancel Room
6. UnConfigure Room
0. Logout
Enter your choice: 1
Enter the number of rooms to configure: 3
Enter room ID for room 1: 1
Enter room ID for room 2: 2
Enter room ID for room 3: 3
Office configured with 3 rooms.
Configured room IDs: [1, 2, 3]
Enter exit to go to main menu
exit
```

oom_id	booking_status	ac_status	light_status	booking_time	leaving_time	status
1	0	9	0	NULL	NULL	unoccupied
2	0	0	0	NULL	NULL	unoccupied
3	0	0	0	NULL	NULL	unoccupied

```
--- Dashboard ---

1. Configure Room

2. Configure Specific Room

3. Add Occupant

4. Book Room

5. Cancel Room

6. UnConfigure Room

9. Logout
Enter your choice: 2
Enter room ID to configure: 1
Enter maximum capacity for room ID 1: 10
Room 1 maximum capacity set to 10
Enter exit to go to main menu
exit
```

```
mysql> select*from room_config;
+-----+
| room_id | max_capacity |
+-----+
| 1 | 10 |
+-----+
```

```
--- Dashboard ---

1. Configure Room

2. Configure Specific Room

3. Add Occupant

4. Book Room

5. Cancel Room

6. UnConfigure Room

9. Logout

Enter your choice: 3

Enter room ID: 1

Enter number of persons: 2

Occupants added and room status updated successfully.

Returning to main menu...
```

```
mysql> select*from occupant;
+-----+
| room_id | no_of_persons |
+-----+
| 1 | 2 |
+-----+
1 row in set (0.00 sec)

mysql> select*from room_config;
+-----+
| room_id | max_capacity |
+-----+
| 1 | 8 |
+-----+
1 row in set (0.00 sec)

mysql> |
mysql> |
```

```
--- Dashboard ---
1. Configure Room
```

2. Configure Specific Room

3. Add Occupant

4. Book Room

5. Cancel Room

6. UnConfigure Room

Logout

Enter your choice: 4 Enter room ID: 1

Enter booking time (yyyy-MM-dd HH:mm:ss): 2024-07-28 02:00:00

Enter duration in minutes: 90 Room booked successfully. Returning to main menu...

mysql> sele	ect*from room_stat	tus;								
room_id	booking_status	ac_status	light_status	booking_time	leaving_time	status				
1 2 3	1 0 0	1   0   0	1 0 0	2024-07-28 02:00:00 NULL NULL	2024-07-28 03:30:00   NULL   NULL	occupied unoccupied unoccupied				
3 rows in set (0.00 sec)  mysql> select*from booked_rooms;										
room_id   booking_time   c		durati	on   leaving_t	ime						
1	1   2024-07-28 02:00:00   90		90   2024-07-28	3 03:30:00						
1 row in se	et (0.00 sec)			•						

- --- Dashboard ---
- 1. Configure Room
- 2. Configure Specific Room
- 3. Add Occupant
- 4. Book Room
- 5. Cancel Room
- 6. UnConfigure Room
- Logout

Enter your choice: 5

Enter room ID: 1

Room booking and occupant information cancelled successfully. Returning to main menu...

```
Returning to main menu...
--- Dashboard ---
1. Configure Room
2. Configure Specific Room
3. Add Occupant
4. Book Room
5. Cancel Room
6. UnConfigure Room
Logout
Enter your choice: 3
Enter room ID: 2
Enter number of persons: 1
The total number of persons must be greater than 1.
Returning to main menu...
--- Dashboard ---
1. Configure Room
2. Configure Specific Room
3. Add Occupant
4. Book Room
5. Cancel Room
6. UnConfigure Room
Logout
Enter your choice: 3
Enter room ID: 4
Enter number of persons: 2
Room ID 4 does not exist.
```