Report on the Hotel Management System (HMS)

Hotel Management System (HMS) - Database Report

This report outlines the structure, functionality, and key features of the Hotel Management System (HMS) database, which is designed to support efficient hotel operations through organized data handling and retrieval.

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1. Database and Table Structure

The system operates on a database named **hms** and comprises multiple interrelated tables that manage different aspects of hotel operations:

• login

- Stores user credentials.
- **Fields:** username, password

• room

- Manages hotel room inventory.
- **Primary Key:** room_number
- **Fields:** room_number, availability, clean_status, price, bed_type

• customer

- Records guest booking information.
- **Primary Key:** id
- **Fields:** id, name, gender, country, status, deposit, room_number *(Foreign Key referencing room)*

• employee

- Stores details of hotel staff.
- **Fields:** name, age, job, salary, phone, aadhar, email

• driver

- Contains information about available drivers.
- **Fields:** name, age, company, brand, available

• department

- Lists various departments within the hotel and their budgets.
- **Fields:** department_name, budget

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2. System Functionality and Queries

The HMS supports a wide range of SQL queries for operational, managerial, and analytical tasks.

Room Management

- Retrieve all room details or filter based on:
    - **Availability** (e.g., 'Available' or 'Occupied')
    - **Room number** or **price range**
    - **Clean status** (e.g., rooms needing cleaning)

Customer Management

- Display a list of all customers.
- Filter based on:
    - **Booking status** ('Checked-in' or 'Checked-out')
    - **Deposit amount**
- Retrieve details of a specific customer using **customer ID**.

Employee and Department Management

- Retrieve employees based on:
    - **Job title** (e.g., 'Housekeeper', 'Receptionist')
    - **Salary threshold**
- Count the total number of employees.
- List all departments along with their budgets.

Data Relationships

- **JOIN queries** are used to combine data from multiple tables.
    - For example: Display a customer's name, room number, bed type, and room price in a single view using a join between **customer** and **room** tables.

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3. Data Manipulation Operations (DML)

The system enables standard data operations to update and maintain hotel records.

UPDATE

- Modify customer status to 'Checked-out'
- Update room **availability**
- Adjust employee **salary**

INSERT

- Add new entries such as:
    - New employee record
    - New room, customer, or department

DELETE

- Remove specific entries from the database:
    - Delete a room using **room_number**
    - Delete a customer using **id**

Conclusion

The **Hotel Management System (HMS)** database is a robust and structured platform designed to streamline hotel operations. It facilitates seamless data management for rooms, customers, employees, drivers, and departments through well-defined tables and efficient query handling. By supporting comprehensive DML operations and logical relationships among data entities, the system ensures accuracy, consistency, and flexibility in hotel administration.

1. Database Creation

```
CREATE DATABASE hms;
USE hms;
```

2. Creating Tables

a. Login Table

```
CREATE TABLE login (
    username VARCHAR(40),
    password VARCHAR(40)
);
INSERT INTO login VALUES ('admin', '12345');
```

b. Room Table

```
CREATE TABLE room (
    room_number VARCHAR(20) NOT NULL,
    availability VARCHAR(20) NOT NULL,
    clean_status VARCHAR(20) NOT NULL,
    price VARCHAR(20) NOT NULL,
    bed_type VARCHAR(30) NOT NULL,
    PRIMARY KEY (room_number)
);
INSERT INTO room VALUES
('101', 'Available', 'Clean', '2000', 'Single'),
('102', 'Available', 'Clean', '2500', 'Double'),
('103', 'Occupied', 'Clean', '3000', 'Single'),
('104', 'Available', 'Clean', '3500', 'Double'),
('105', 'Occupied', 'Dirty', '2200', 'Single'),
('106', 'Available', 'Clean', '2700', 'Single'),
('107', 'Occupied', 'Clean', '2300', 'Double'),
('108', 'Available', 'Dirty', '2000', 'Single'),
('109', 'Occupied', 'Clean', '4000', 'Double'),
('110', 'Available', 'Clean', '3000', 'Single'),
('111', 'Occupied', 'Clean', '2500', 'Single'),
('112', 'Available', 'Dirty', '3200', 'Double'),
('113', 'Available', 'Clean', '2100', 'Single'),
('114', 'Occupied', 'Dirty', '3500', 'Double'),
('115', 'Available', 'Clean', '2700', 'Single'),
('116', 'Occupied', 'Clean', '3000', 'Double'),
('117', 'Available', 'Dirty', '2600', 'Single'),
('118', 'Occupied', 'Clean', '2200', 'Double'),
('119', 'Available', 'Clean', '2800', 'Single'),
('120', 'Occupied', 'Dirty', '3300', 'Double');
```

c. Customer Table

```
CREATE TABLE customer (
    id VARCHAR(30) NOT NULL,
    number VARCHAR(30) NOT NULL,
    name VARCHAR(30) NOT NULL,
    gender VARCHAR(30) NOT NULL,
    country VARCHAR(30) NOT NULL,
    room_number VARCHAR(30) NOT NULL,
    status VARCHAR(30) NOT NULL,
```

```
    deposit VARCHAR(30) NOT NULL,
    PRIMARY KEY (id),
    FOREIGN KEY(room_number) REFERENCES room(room_number)
);
INSERT INTO customer VALUES
('C001', '9876543210', 'John Doe', 'Male', 'USA', '101', 'Checked-
in', '1000'),
('C002', '9876543211', 'Jane Doe', 'Female', 'Canada', '102',
'Checked-in', '1500'),
('C003', '9876543212', 'Robert Smith', 'Male', 'UK', '103',
'Checked-out', '500'),
('C004', '9876543213', 'Emily Davis', 'Female', 'Australia', '104',
'Checked-in', '2000'),
('C005', '9876543214', 'William Brown', 'Male', 'India', '105',
'Checked-out', '1000'),
('C006', '9876543215', 'Jessica Wilson', 'Female', 'USA', '106',
'Checked-in', '1200'),
('C007', '9876543216', 'Michael Taylor', 'Male', 'USA', '107',
'Checked-out', '800'),
('C008', '9876543217', 'Sarah Johnson', 'Female', 'Canada', '108',
'Checked-in', '1400'),
('C009', '9876543218', 'James Lee', 'Male', 'China', '109',
'Checked-in', '1600'),
('C010', '9876543219', 'Patricia Harris', 'Female', 'Mexico', '110',
'Checked-out', '600'),
('C011', '9876543220', 'Charles Clark', 'Male', 'India', '111',
'Checked-in', '1800'),
('C012', '9876543221', 'Linda Allen', 'Female', 'Australia', '112',
'Checked-out', '1500'),
('C013', '9876543222', 'David Hall', 'Male', 'USA', '113', 'Checked-
in', '900'),
('C014', '9876543223', 'Maria Scott', 'Female', 'Canada', '114',
'Checked-out', '700'),
('C015', '9876543224', 'Thomas Young', 'Male', 'UK', '115',
'Checked-in', '1100'),
('C016', '9876543225', 'Susan King', 'Female', 'USA', '116',
'Checked-in', '1300'),
('C017', '9876543226', 'Daniel Wright', 'Male', 'India', '117',
'Checked-out', '400'),
('C018', '9876543227', 'Karen Adams', 'Female', 'Mexico', '118',
'Checked-in', '1700'),
('C019', '9876543228', 'Steven Martinez', 'Male', 'USA', '119',
'Checked-in', '2000'),
('C020', '9876543229', 'Laura Perez', 'Female', 'Canada', '120',
'Checked-out', '1200');
```

d. Employee Table

```
CREATE TABLE employee (
    name VARCHAR(30) NOT NULL,
    age VARCHAR(10) NOT NULL,
```

```
    gender VARCHAR(30) NOT NULL,
    job VARCHAR(30) NOT NULL,
    salary VARCHAR(30) NOT NULL,
    phone VARCHAR(30) NOT NULL,
    aadhar VARCHAR(30) NOT NULL,
    email VARCHAR(40) NOT NULL
);
INSERT INTO employee VALUES
('John Miller', '30', 'Male', 'Manager', '50000', '9876543210',
'1234567890', 'john.miller@example.com'),
('Sara Parker', '28', 'Female', 'Receptionist', '30000',
'9876543211', '1234567891', 'sara.parker@example.com'),
('Tom Scott', '35', 'Male', 'Chef', '40000', '9876543212',
'1234567892', 'tom.scott@example.com'),
('Emily Taylor', '29', 'Female', 'Housekeeper', '25000',
'9876543213', '1234567893', 'emily.taylor@example.com'),
('Robert Brown', '45', 'Male', 'Security', '35000', '9876543214',
'1234567894', 'robert.brown@example.com'),
('Anna Wilson', '32', 'Female', 'Manager', '55000', '9876543215',
'1234567895', 'anna.wilson@example.com'),
('Michael Clark', '40', 'Male', 'Driver', '30000', '9876543216',
'1234567896', 'michael.clark@example.com'),
('Sarah Lewis', '38', 'Female', 'Housekeeper', '22000',
'9876543217', '1234567897', 'sarah.lewis@example.com'),
('David Walker', '50', 'Male', 'Security', '36000', '9876543218',
'1234567898', 'david.walker@example.com'),
('Jessica Harris', '27', 'Female', 'Receptionist', '28000',
'9876543219', '1234567899', 'jessica.harris@example.com');
```

e. Driver Table

```
CREATE TABLE driver (
    name VARCHAR(30) NOT NULL,
    age VARCHAR(10) NOT NULL,
    gender VARCHAR(20) NOT NULL,
    company VARCHAR(30) NOT NULL,
    brand VARCHAR(30) NOT NULL,
    available VARCHAR(10) NOT NULL,
    location VARCHAR(50) NOT NULL
);
INSERT INTO driver VALUES
('John Smith', '40', 'Male', 'ABC Transport', 'Toyota', 'Yes', 'New
York'),
('Amy Johnson', '28', 'Female', 'XYZ Cabs', 'Honda', 'No',
'Chicago'),
('David Green', '33', 'Male', 'Speed Cabs', 'Ford', 'Yes', 'San
Francisco'),
('Laura Adams', '36', 'Female', 'Sunshine Rides', 'Chevrolet',
'Yes', 'Los Angeles'),
('Paul Brown', '45', 'Male', 'Quick Transport', 'Mercedes', 'No',
'Houston'),
```

```
('Alice Clark', '38', 'Female', 'ABC Transport', 'BMW', 'Yes',
'Miami'),
('George White', '50', 'Male', 'XYZ Cabs', 'Audi', 'Yes', 'Dallas'),
('Emma Davis', '29', 'Female', 'Sunshine Rides', 'Nissan', 'No',
'Austin'),
('Robert Martinez', '42', 'Male', 'Speed Cabs', 'Toyota', 'Yes',
'Seattle'),
('Sophia Wilson', '31', 'Female', 'Quick Transport', 'Hyundai',
'No', 'Denver');
```

f. Department Table

```
CREATE TABLE department (
    department VARCHAR(30) NOT NULL,
    budget VARCHAR(30) NOT NULL
);
INSERT INTO department VALUES
('Housekeeping', '100000'),
('Front Desk', '150000'),
('Security', '120000'),
('Maintenance', '80000'),
('Restaurant', '200000'),
('Laundry', '50000'),
('Transportation', '70000'),
('Administration', '250000'),
('Marketing', '150000'),
('Events', '30000');
```

3.Queries

1. Get All Rooms Information

```
SELECT * FROM room;
```

room_number	availability	clean_status	price	bed_type
101	Available	Clean	2000	Single
102	Available	Clean	2500	Double
103	Occupied	Clean	3000	Single
104	Available	Clean	3500	Double
105	Occupied	Dirty	2200	Single
106	Available	Clean	2700	Single
107	Occupied	Clean	2300	Double
108	Available	Dirty	2000	Single
109	Occupied	Clean	4000	Double
110	Available	Clean	3000	Single
111	Occupied	Clean	2500	Single
112	Available	Dirty	3200	Double
113	Available	Clean	2100	Single
114	Occupied	Dirty	3500	Double
115	Available	Clean	2700	Single
116	Occupied	Clean	3000	Double
117	Available	Dirty	2600	Single
118	Occupied	Clean	2200	Double

119	Available	Clean	2800	Single
120	Occupied	Dirty	3300	Double

2. Get Available Rooms

```
SELECT * FROM room WHERE availability = 'Available';
```

room_number	availability	clean_status	price	bed_type
101	Available	Clean	2000	Single
102	Available	Clean	2500	Double
104	Available	Clean	3500	Double
106	Available	Clean	2700	Single
108	Available	Dirty	2000	Single
110	Available	Clean	3000	Single
112	Available	Dirty	3200	Double
113	Available	Clean	2100	Single
115	Available	Clean	2700	Single
117	Available	Dirty	2600	Single
119	Available	Clean	2800	Single

3. Get Occupied Rooms

```
SELECT * FROM room WHERE availability = 'Occupied';
```

room_number	availability	clean_status	price	bed_type
103	Occupied	Clean	3000	Single
105	Occupied	Dirty	2200	Single
107	Occupied	Clean	2300	Double
109	Occupied	Clean	4000	Double
111	Occupied	Clean	2500	Single
114	Occupied	Dirty	3500	Double
116	Occupied	Clean	3000	Double
118	Occupied	Clean	2200	Double
120	Occupied	Dirty	3300	Double

4. Get Room Details by Room Number

```
SELECT * FROM room WHERE room_number = '101';
```

room_number	availability	clean_status	price	bed_type
101	Available	Clean	2000	Single

5. Get All Customers

```
SELECT * FROM customer;
```

id	number	name	gender	country	room_number	status	deposit
C001	9876543210	John Doe	Male	USA	101	Checked-in	1000
C002	9876543211	Jane Doe	Female	Canada	102	Checked-in	1500
C003	9876543212	Robert Smith	Male	UK	103	Checked-out	500
C004	9876543213	Emily Davis	Female	Australia	104	Checked-in	2000
C005	9876543214	William Brown	Male	India	105	Checked-out	1000

C006	9876543215	Jessica Wilson	Female	USA	106	Checked-in	1200
C007	9876543216	Michael Taylor	Male	USA	107	Checked-out	800
C008	9876543217	Sarah Johnson	Female	Canada	108	Checked-in	1400
C009	9876543218	James Lee	Male	China	109	Checked-in	1600
C010	9876543219	Patricia Harris	Female	Mexico	110	Checked-out	600
C011	9876543220	Charles Clark	Male	India	111	Checked-in	1800
C012	9876543221	Linda Allen	Female	Australia	112	Checked-out	1500
C013	9876543222	David Hall	Male	USA	113	Checked-in	900
C014	9876543223	Maria Scott	Female	Canada	114	Checked-out	700
C015	9876543224	Thomas Young	Male	UK	115	Checked-in	1100
C016	9876543225	Susan King	Female	USA	116	Checked-in	1300
C017	9876543226	Daniel Wright	Male	India	117	Checked-out	400
C018	9876543227	Karen Adams	Female	Mexico	118	Checked-in	1700
C019	9876543228	Steven Martinez	Male	USA	119	Checked-in	2000
C020	9876543229	Laura Perez	Female	Canada	120	Checked-out	1200

6. Get Customers with Status 'Checked-in'

```
SELECT * FROM customer WHERE status = 'Checked-in';
```

id	number	name	gender	country	room_number	status	deposit
C001	9876543210	John Doe	Male	USA	101	Checked-in	1000
C002	9876543211	Jane Doe	Female	Canada	102	Checked-in	1500
C004	9876543213	Emily Davis	Female	Australia	104	Checked-in	2000
C006	9876543215	Jessica Wilson	Female	USA	106	Checked-in	1200
C008	9876543217	Sarah Johnson	Female	Canada	108	Checked-in	1400
C009	9876543218	James Lee	Male	China	109	Checked-in	1600
C011	9876543220	Charles Clark	Male	India	111	Checked-in	1800
C013	9876543222	David Hall	Male	USA	113	Checked-in	900
C015	9876543224	Thomas Young	Male	UK	115	Checked-in	1100
C016	9876543225	Susan King	Female	USA	116	Checked-in	1300
C018	9876543227	Karen Adams	Female	Mexico	118	Checked-in	1700
C019	9876543228	Steven Martinez	Male	USA	119	Checked-in	2000

7. Get Customers with Deposit Greater Than 1000

```
SELECT * FROM customer WHERE deposit > 1000;
```

id	number	name	gender	country	room_number	status	deposit
C002	9876543211	Jane Doe	Female	Canada	102	Checked-in	1500
C004	9876543213	Emily Davis	Female	Australia	104	Checked-in	2000
C006	9876543215	Jessica Wilson	Female	USA	106	Checked-in	1200
C008	9876543217	Sarah Johnson	Female	Canada	108	Checked-in	1400
C009	9876543218	James Lee	Male	China	109	Checked-in	1600
C011	9876543220	Charles Clark	Male	India	111	Checked-in	1800
C012	9876543221	Linda Allen	Female	Australia	112	Checked-out	1500
C015	9876543224	Thomas Young	Male	UK	115	Checked-in	1100
C016	9876543225	Susan King	Female	USA	116	Checked-in	1300
C018	9876543227	Karen Adams	Female	Mexico	118	Checked-in	1700
C019	9876543228	Steven Martinez	Male	USA	119	Checked-in	2000
C020	9876543229	Laura Perez	Female	Canada	120	Checked-out	1200

8. Get Customer Information and Room Details

```
SELECT c.name, c.room_number, r.bed_type, r.price
FROM customer c
JOIN room r ON c.room_number = r.room_number;
```

name	room_number	bed_type	price
John Doe	101	Single	2000
Jane Doe	102	Double	2500
Robert Smith	103	Single	3000
Emily Davis	104	Double	3500
William Brown	105	Single	2200

Jessica Wilson	106	Single	2700
Michael Taylor	107	Double	2300
Sarah Johnson	108	Single	2000
James Lee	109	Double	4000
Patricia Harris	110	Single	3000
Charles Clark	111	Single	2500
Linda Allen	112	Double	3200
David Hall	113	Single	2100
Maria Scott	114	Double	3500
Thomas Young	115	Single	2700
Susan King	116	Double	3000
Daniel Wright	117	Single	2600
Karen Adams	118	Double	2200
Steven Martinez	119	Single	2800
Laura Perez	120	Double	3300

9. Get Customer Details by Customer ID

```
SELECT * FROM customer WHERE id = 'C001';
```

id	number	name	gender	country	room_number	status	deposit
C001	9876543210	John Doe	Male	USA	101	Checked-in	1000

10. Get Employees Working in Housekeeping Department

```
SELECT * FROM employee WHERE job = 'Housekeeper';
```

name	age	gender	job	salary	phone	aadhar	email
Emily Taylor	29	Female	Housekeeper	25000	9876543213	1234567893	emily.taylor@example.com
Sarah Lewis	38	Female	Housekeeper	22000	9876543217	1234567897	sarah.lewis@example.com

11. Get Employees with Salary Above 30000

```
SELECT * FROM employee WHERE salary > 30000;
```

name	age	gender	job	salary	phone	aadhar	email
John Miller	30	Male	Manager	50000	9876543210	1234567890	john.miller@example.com
Tom Scott	35	Male	Chef	40000	9876543212	1234567892	tom.scott@example.com
Robert Brown	45	Male	Security	35000	9876543214	1234567894	robert.brown@example.com
Anna Wilson	32	Female	Manager	55000	9876543215	1234567895	anna.wilson@example.com
David Walker	50	Male	Security	36000	9876543218	1234567898	david.walker@example.com

12. Get Driver Information for Available Drivers

```
SELECT * FROM driver WHERE available = 'Yes';
```

name	age	gender	company	brand	available	location
John Smith	40	Male	ABC Transport	Toyota	Yes	New York
David Green	33	Male	Speed Cabs	Ford	Yes	San Francisco
Laura Adams	36	Female	Sunshine Rides	Chevrolet	Yes	Los Angeles
Alice Clark	38	Female	ABC Transport	BMW	Yes	Miami
George White	50	Male	XYZ Cabs	Audi	Yes	Dallas
Robert Martinez	42	Male	Speed Cabs	Toyota	Yes	Seattle

13. Get All Departments with Their Budget

```
SELECT * FROM department;
```

department	budget

Housekeeping	100000
Front Desk	150000
Security	120000
Maintenance	80000
Restaurant	200000
Laundry	50000
Transportation	70000
Administration	250000
Marketing	150000
Events	30000

14. Get Employees from the 'Front Desk' Department

```
SELECT * FROM employee WHERE job = 'Receptionist';
```

name	age	gender	job	salary	phone	aadhar	email
Sara Parker	28	Female	Receptionist	30000	9876543211	1234567891	sara.parker@example.com
Jessica Harris	27	Female	Receptionist	28000	9876543219	1234567899	jessica.harris@example.com

15. Get Rooms by Price Range

```
SELECT * FROM room WHERE price BETWEEN 2000 AND 3000;
```

room_number	availability	clean_status	price	bed_type
101	Available	Clean	2000	Single
102	Available	Clean	2500	Double
103	Occupied	Clean	3000	Single
105	Occupied	Dirty	2200	Single
106	Available	Clean	2700	Single
107	Occupied	Clean	2300	Double
108	Available	Dirty	2000	Single
110	Available	Clean	3000	Single
111	Occupied	Clean	2500	Single
113	Available	Clean	2100	Single
115	Available	Clean	2700	Single
116	Occupied	Clean	3000	Double
117	Available	Dirty	2600	Single
118	Occupied	Clean	2200	Double
119	Available	Clean	2800	Single

16. Update Customer Status to 'Checked-out'

```
UPDATE customer SET status = 'Checked-out' WHERE id = 'C001';
```

17. Update Room Availability to 'Occupied'

```
UPDATE room SET availability = 'Occupied' WHERE room_number = '101';
```

18. Insert New Employee

```
INSERT INTO employee (name, age, gender, job, salary, phone, aadhar,
email)
VALUES ('Mark Johnson', '30', 'Male', 'Manager', '50000',
'9876543220', '1234567899', 'mark.johnson@example.com');
```

19. Delete Room by Room Number

```
DELETE FROM room WHERE room_number = '101';
```

20. Delete Customer by Customer ID

```
DELETE FROM customer WHERE id = 'C002';
```

21. Get Total Revenue from All Occupied Rooms

```
SELECT SUM(price) AS total_revenue
FROM room
WHERE availability = 'Occupied';
```

```
+---------------+
| total_revenue |
+---------------+
|         28000 |
+---------------+
```

22. Get the Number of Rooms in Each Availability Status

```
SELECT availability, COUNT(*) AS num_rooms
FROM room
GROUP BY availability;
```

```
+--------------+-----------+
| availability | num_rooms |
+--------------+-----------+
| Occupied     |        10 |
| Available    |        10 |
+--------------+-----------+
```

23. Get All Employees and Their Job Titles

```
SELECT name, job FROM employee;
```

```
+----------------+--------------+
| name           | job          |
+----------------+--------------+
| John Miller    | Manager      |
| Sara Parker    | Receptionist |
| Tom Scott      | Chef         |
| Emily Taylor   | Housekeeper  |
| Robert Brown   | Security     |
| Anna Wilson    | Manager      |
| Michael Clark  | Driver       |
| Sarah Lewis    | Housekeeper  |
| David Walker   | Security     |
| Jessica Harris | Receptionist |
| Mark Johnson   | Manager      |
+----------------+--------------+
```

24. Get All Customers Who Stayed in a Specific Room

```
SELECT c.name, c.room_number, c.status
FROM customer c
WHERE c.room_number = '101';
```

```
+----------+-------------+-------------+
| name     | room_number | status      |
+----------+-------------+-------------+
| John Doe | 101         | Checked-out |
+----------+-------------+-------------+
```

25. Find All Rooms with 'Dirty' Cleaning Status

```
SELECT * FROM room WHERE clean_status = 'Dirty';
```

room_number	availability	clean_status	price	bed_type
105	Occupied	Dirty	2200	Single
108	Available	Dirty	2000	Single
112	Available	Dirty	3200	Double
114	Occupied	Dirty	3500	Double
117	Available	Dirty	2600	Single
120	Occupied	Dirty	3300	Double

26. Find Employees Who Have Worked for More Than 5 Years (based on age)

```
SELECT * FROM employee WHERE age > 30;
```

name	age	gender	job	salary	phone	aadhar	email
Tom Scott	35	Male	Chef	40000	9876543212	1234567892	tom.scott@example.com
Robert Brown	45	Male	Security	35000	9876543214	1234567894	robert.brown@example.com
Anna Wilson	32	Female	Manager	55000	9876543215	1234567895	anna.wilson@example.com
Michael Clark	40	Male	Driver	30000	9876543216	1234567896	michael.clark@example.com
Sarah Lewis	38	Female	Housekeeper	22000	9876543217	1234567897	sarah.lewis@example.com
David Walker	50	Male	Security	36000	9876543218	1234567898	david.walker@example.com

27. Get Customers by Country

```
SELECT * FROM customer WHERE country = 'USA';
```

id	number	name	gender	country	room_number	status	deposit
C001	9876543210	John Doe	Male	USA	101	Checked-out	1000
C006	9876543215	Jessica Wilson	Female	USA	106	Checked-in	1200
C007	9876543216	Michael Taylor	Male	USA	107	Checked-out	800
C013	9876543222	David Hall	Male	USA	113	Checked-in	900
C016	9876543225	Susan King	Female	USA	116	Checked-in	1300
C019	9876543228	Steven Martinez	Male	USA	119	Checked-in	2000

28. Get the Room with the Highest Price

```
SELECT * FROM room WHERE price = (SELECT MAX(price) FROM room);
```

room_number	availability	clean_status	price	bed_type
109	Occupied	Clean	4000	Double

29. Get the Total Number of Employees

```
SELECT COUNT(*) AS total_employees FROM employee;
```

total_employees
11

30. Get a List of All Available Rooms Sorted by Price

```
SELECT * FROM room WHERE availability = 'Available' ORDER BY price
ASC;
```

room_number	availability	clean_status	price	bed_type
108	Available	Dirty	2000	Single
113	Available	Clean	2100	Single

102	Available	Clean	2500	Double
117	Available	Dirty	2600	Single
106	Available	Clean	2700	Single
115	Available	Clean	2700	Single
119	Available	Clean	2800	Single
110	Available	Clean	3000	Single
112	Available	Dirty	3200	Double
104	Available	Clean	3500	Double

31. Get List of Drivers Working for a Specific Company

```
SELECT * FROM driver WHERE company = 'ABC Transport';
```

name	age	gender	company	brand	available	location
John Smith	40	Male	ABC Transport	Toyota	Yes	New York
Alice Clark	38	Female	ABC Transport	BMW	Yes	Miami

32. Get the Average Salary of Employees

```
SELECT AVG(salary) AS average_salary FROM employee;
```

average_salary
36454.545454545456

33. Get List of Customers Who Have Deposited More Than 1000

```
SELECT * FROM customer WHERE deposit > 1000;
```

id	number	name	gender	country	room_number	status	deposit
C004	9876543213	Emily Davis	Female	Australia	104	Checked-in	2000
C006	9876543215	Jessica Wilson	Female	USA	106	Checked-in	1200
C008	9876543217	Sarah Johnson	Female	Canada	108	Checked-in	1400
C009	9876543218	James Lee	Male	China	109	Checked-in	1600
C011	9876543220	Charles Clark	Male	India	111	Checked-in	1800
C012	9876543221	Linda Allen	Female	Australia	112	Checked-out	1500
C015	9876543224	Thomas Young	Male	UK	115	Checked-in	1100
C016	9876543225	Susan King	Female	USA	116	Checked-in	1300
C018	9876543227	Karen Adams	Female	Mexico	118	Checked-in	1700
C019	9876543228	Steven Martinez	Male	USA	119	Checked-in	2000
C020	9876543229	Laura Perez	Female	Canada	120	Checked-out	1200

34. Get List of Customers Who Have Checked-out

```
SELECT * FROM customer WHERE status = 'Checked-out';
```

id	number	name	gender	country	room_number	status	deposit
C001	9876543210	John Doe	Male	USA	101	Checked-out	1000
C003	9876543212	Robert Smith	Male	UK	103	Checked-out	500
C005	9876543214	William Brown	Male	India	105	Checked-out	1000
C007	9876543216	Michael Taylor	Male	USA	107	Checked-out	800
C010	9876543219	Patricia Harris	Female	Mexico	110	Checked-out	600
C012	9876543221	Linda Allen	Female	Australia	112	Checked-out	1500
C014	9876543223	Maria Scott	Female	Canada	114	Checked-out	700
C017	9876543226	Daniel Wright	Male	India	117	Checked-out	400
C020	9876543229	Laura Perez	Female	Canada	120	Checked-out	1200

35. Update Employee Salary

```
UPDATE employee SET salary = '60000' WHERE name = 'Sara Parker';
```