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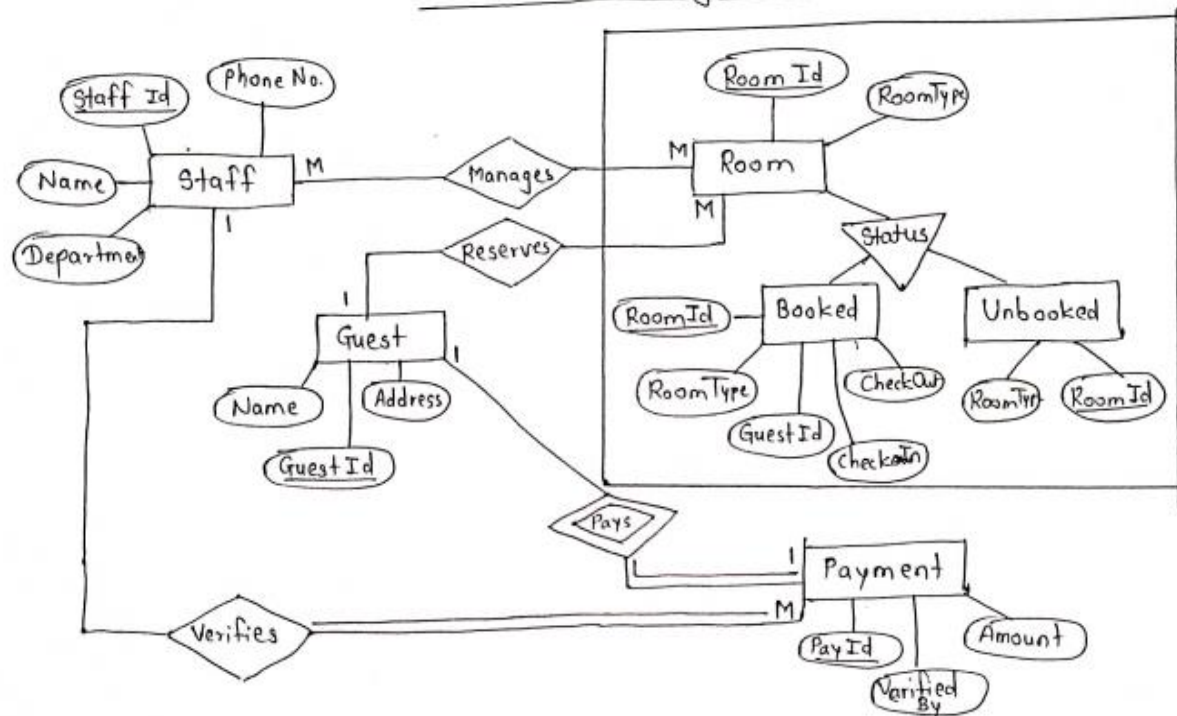
Roll No. 332002

PRN 22010910

Batch B1

ER Diagram

- : Hotel Management System :-



Create Table Staff

```
mysql> create table staff( StaffId varchar(5) primary key, Name varchar(50), Department varchar(15) not null);
Query OK, 0 rows affected (0.02 sec)
```

Insert Values in Staff Table

```
mysql> insert into staff values( "S1001", "Rakesh Sharma", "Manager");
Query OK, 1 row affected (0.01 sec)

mysql> select * from staff;
+-----+-----+-----+
| StaffId | Name          | Department |
+-----+-----+-----+
| S1001   | Rakesh Sharma | Manager    |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> █
```

Create Table Guest

```
mysql> create table Guest(
  -> GuestNo int not null Auto_increment ,
  -> PersonId varchar(12),
  -> Name varchar(50),
  -> hometown varchar(15),
  -> Primary Key (GuestNo));
```

Insert Values in Guest Table

```
mysql> insert into guest (PersonId , Name , hometown)
  -> values ("232476214140", "Rahul Varma", "Jalgaon");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from guest;
+-----+-----+-----+-----+
| GuestNo | PersonId      | Name          | hometown |
+-----+-----+-----+-----+
| 1       | 232476214140 | Rahul Varma   | Jalgaon  |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

Database:

MySQL 8.0 Command Line Client

```
mysql> select * from guest;
```

GuestNo	PersonId	Name	hometown
1	232476214140	Rahul Varma	Jalgaon
2	989565653237	Aditya Raje	Kondhwa
3	986561326458	Rajesh Singh	Kanpur
4	976532664129	Kunal Pradhan	Raipur
5	754996412369	Sanket Kadam	Nashik
6	956632264526	Om Shah	Mumbai
7	756595952627	Ram Varma	Katraj
8	232656233235	Tipendra Sharma	Thane
9	989565632331	Rahul Gada	Kacch
10	989562326561	Sonu Bhide	Chiplun
11		NULL	NULL

11 rows in set (0.00 sec)

```
mysql> select * from payment;
```

PayId	PaidBy	VerifiedBy	TotalAmount	AmountRemaining
P001	5	S3004	3000	0
P002	7	S3001	2000	0
P003	4	S3004	5000	0
P004	8	S3001	3000	0
P005	2	S3001	4000	0
P006	6	S3001	4000	0
P007	3	S3004	1000	0
P008	1	S3004	1000	0

8 rows in set (0.00 sec)

```
mysql> select * from staff;
```

StaffId	Name	Department
S1001	Rakesh Sharma	Manager
S1002	Rahul Phule	Manager
S2001	Raju Karma	RoomServices
S2002	Kunal Shah	RoomServices
S2005	Ganesh Kale	RoomServices
S3001	Bharat Singh	Receptionist
S3004	Rajesh Khanna	Receptionist

7 rows in set (0.00 sec)

```
mysql> _
```

- Update Payment of specific Guest

```
mysql> update payment
-> set AmountRemaining = 500
-> where TotalAmount > 2000;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5  Changed: 5  Warnings: 0
```

```
mysql> select * from payment ;
```

PayId	PaidBy	VerifiedBy	TotalAmount	AmountRemaining
P001	5	S3004	3000	500
P002	7	S3001	2000	0
P003	4	S3004	5000	500
P004	8	S3001	3000	500
P005	2	S3001	4000	500
P006	6	S3001	4000	500
P007	3	S3004	1000	0
P008	1	S3004	1000	0

8 rows in set (0.00 sec)

```
mysql> _
```

- Delete specific entity in table

```
mysql> delete from payment
-> where PayId = "P006";
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from payment ;
```

PayId	PaidBy	VerifiedBy	TotalAmount	AmountRemaining
P001	5	S3004	3000	500
P002	7	S3001	2000	0
P003	4	S3004	5000	500
P004	8	S3001	3000	500
P005	2	S3001	4000	500
P007	3	S3004	1000	0
P008	1	S3004	1000	0

7 rows in set (0.00 sec)

```
mysql>
```

- Insert Specific entity in table

```
mysql> insert into Payment
-> values("P006", 6 , "S3001", 2000, 1500);
Query OK, 1 row affected (0.00 sec)

mysql> select * from payment ;
+-----+-----+-----+-----+-----+
| PayId | PaidBy | VerifiedBy | TotalAmount | AmountRemaining |
+-----+-----+-----+-----+-----+
| P001  |      5 | S3004      |          3000 |             500 |
| P002  |      7 | S3001      |          2000 |              0 |
| P003  |      4 | S3004      |          5000 |             500 |
| P004  |      8 | S3001      |          3000 |             500 |
| P005  |      2 | S3001      |          4000 |             500 |
| P006  |      6 | S3001      |          2000 |            1500 |
| P007  |      3 | S3004      |          1000 |              0 |
| P008  |      1 | S3004      |          1000 |              0 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```

- Project all Guest Names whose hometown id Jalgaon or Kanpur

```
mysql> select * from guest;
+-----+-----+-----+-----+
| GuestNo | PersonId | Name | hometown |
+-----+-----+-----+-----+
|      1 | 232476214140 | Rahul Varma | Jalgaon |
|      2 | 989565653237 | Aditya Raje | Kondhwa |
|      3 | 986561326458 | Rajesh Singh | Kanpur |
|      4 | 976532664129 | Kunal Pradhan | Raipur |
|      5 | 754996412369 | Sanket Kadam | Nashik |
|      6 | 956632264526 | Om Shah | Mumbai |
|      7 | 756595952627 | Ram Varma | Katraj |
|      8 | 232656233235 | Tipendra Sharma | Thane |
|      9 | 989565632331 | Rahul Gada | Kacch |
|     10 | 989562326561 | Sonu Bhide | Chiplun |
|     11 | | NULL | NULL |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> -- Project all Guest Names whose hometown id Jalgaon or Kanpur
mysql> select Name from guest
-> where hometown = "Jalgaon" or hometown = "Kanpur";
+-----+
| Name |
+-----+
| Rahul Varma |
| Rajesh Singh |
+-----+
2 rows in set (0.00 sec)

mysql>
```

- **Project PayId whose Amount Remaining is > 500**

```
mysql> select * from payment
-> where AmountRemaining > 500;
+-----+-----+-----+-----+-----+
| PayId | PaidBy | VerifiedBy | TotalAmount | AmountRemaining |
+-----+-----+-----+-----+-----+
| P006  | 6      | S3001      | 2000        | 1500            |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> _
```

- **Project Guest names and Remaining Payment >= 500**

```
ERROR 1054 (42S22): Unknown column 'guest.guestid' in 'where clause'
mysql> select guest.Name, payment.AmountRemaining
-> from guest, payment
-> where Payment.AmountRemaining >= 500 and Guest.GuestNo = Payment.paidby;
+-----+-----+
| Name          | AmountRemaining |
+-----+-----+
| Sanket Kadam  | 500             |
| Kunal Pradhan | 500             |
| Tipendra Sharma | 500            |
| Aditya Raje   | 500             |
| Om Shah       | 1500            |
+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

- **Print guest names whose name starts with 'S'**

```
mysql> select Name from Guest where name like 'S%';
+-----+
| Name          |
+-----+
| Sanket Kadam  |
| Sonu Bhide    |
+-----+
2 rows in set (0.00 sec)

mysql> _
```

- Update Guest Name “Rahul Varma” to “Chirag Sharm0a”

```
mysql> update guest
  -> set name = "Chirag Sharma"
  -> where name = "Rahul Varma"
  -> ;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from guest;
```

GuestNo	PersonId	Name	hometown
1	232476214140	Chirag Sharma	Jalgaon
2	989565653237	Aditya Raje	Kondhwa
3	986561326458	Rajesh Singh	Kanpur
4	976532664129	Kunal Pradhan	Raipur
5	754996412369	Sanket Kadam	Nashik
6	956632264526	Om Shah	Mumbai
7	756595952627	Ram Varma	Katraj
8	232656233235	Tipendra Sharma	Thane
9	989565632331	Rahul Gada	Kacch
10	989562326561	Sonu Bhide	Chiplun
11		NULL	NULL

```
11 rows in set (0.00 sec)

mysql>
```

- Find Guest names that starts with "o" and ends with "h"

```
mysql> select Name from Guest where name like 'o%h';
```

Name
Om Shah

```
1 row in set (0.00 sec)

mysql>
```