HOTEL CHAIN MANAGEMENT SYSTEM



MYSQL QUERIES ON NORMALIZATION PROJECT

GROUP 16

Nimra Ashraf & Noor Fatima 110829 & 110830 MORNING

Submitted to:

Mam Sehrish Khan

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DESCRIPTION

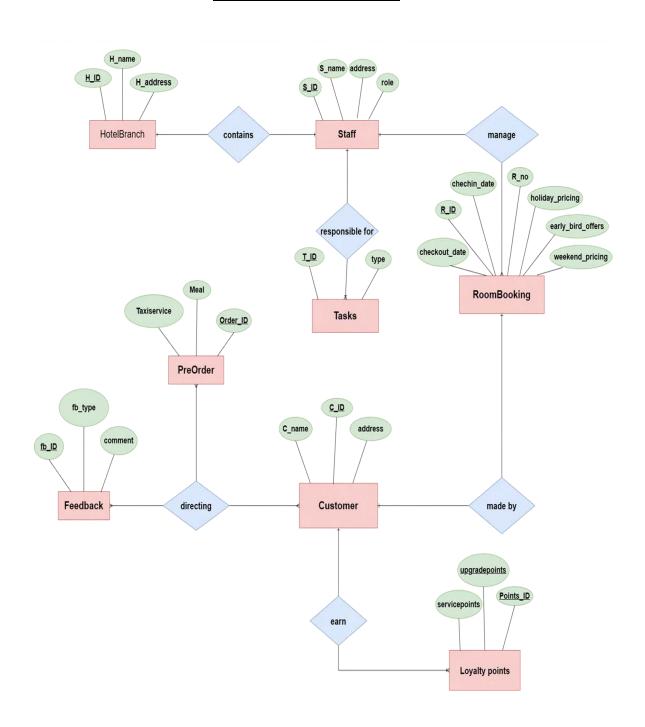
SQL stands for structure query language. It is a widely used, open source relational database management system.

A hotel chain management system provides a centralized platform for managing multiple hotel properties within a chain. This database would store information about different hotels, including room details, staff managing, reservations, guest records pricing information etc.

Pros:

- Scalability
- Reliability
- Cost effectiveness
- Flexibility

ENTITY RELATIONSHIP DIAGRAM



⇒ RELATIONAL SCHEMA

- 1.**hotel_branch** (<u>h_id</u>, h_name, h_address, <u>staff_id</u>)
- 2.**staff**(s_id, s_name, s_address, s_role)
- 3.**room_booking** (R_id, R_no, check_in_date, check_out_date, weekend_pricing, holiday_pricing, early_bird_offers, s_id)
- 4. customer (c_id, c_name, c_address, r_id)
- 5.loyalty_points (points_id, upgrade_points, service_points, <u>cus_id</u>)
- 6.**feedback** (<u>f_id</u>, f_type, comment, <u>customer_id</u>)
- 7.**pre_order** (<u>order_id</u>, meal, taxi_service, <u>cust_id</u>)
- 8. task (\underline{t} id, type, \underline{s} id)

SQL QUERIES

Show DATABASES

Show all databases and tables placed in a database MySQL use the following command:

```
⇒ show databases;
```

⇒ show tables;

CREATE DATABASE & TABLES

Create a new database or table.

```
⇒ create database;
```

⇒ create table table_name (attribute datatype (size),
...);

USING DATABASE

Use a database already saved in MySQL.

⇒ use database database_name;

DESCRIBE TABLES

To see the constraints we have assigned to tables, DESCRIBE keyword is used.

⇒ DESCRIBE table_name;

SELECT

Used to retrieve rows selected from one or more tables.

- ⇒ Select * from table_name;
- ⇒ Select attribute1_name from table_name where attribute2_name='...';

INSERT INTO

Insert values in tables.

⇒ INSERT INTO table_name values ('attribute' datatype (value),);

ALTER TABLES

Used for many purposes such as:

1.To rename a column of a table

- ⇒ ALTER table table_name RENAME COLUMN column_name from existing_name to new_name;
- 2.To add a new column in a table
- ⇒ ALTER table table_name ADD column datatype (size);

3.To make an attribute foreign key

⇒ ALTER table table_name ADD column_name FOREIGN KEY REFERENCES referencetable_name (P.K);

TABLE UPDATION

To reset the values of attributes in a table.

⇒ Update table_name set attribute='value' WHERE attribute_PK='target-value';

TABLE CONTRAINTS

There are two constraints for tables, Primary key and Foreign key.

Primary Key:

The attribute of a table on which all the other attributes of that depend.

Foreign Key:

When Primary key of a table is used in another table, it becomes Foreign key.

⇒ ALTER table table_name ADD FOREIGN KEY (key_name) REFERENCES reference_table (P.K);

Arithmetic Operations

Arithmetic operations include operators such as +, -, *, / etc. to perform addition, subtraction, multiplication and division of two attributes.

⇒ select attribute operator value from table;

Logical / Relational Operations

Logical operations include operators such as >, <, <=, >=, !=, == etc. to relate any two attributes of a table.

⇒ select attribute1 from table_name where attribute2 relational operator value;

Aggregation Functions

Aggregate functions include avg, max, min etc. operations.

⇒ select aggregate_function (attribute) from table;

ORDER BY

ORDER BY keyword is used to sort the values of

tables in ascending or descending order. By default ascending order is set. Otherwise for sorting the records in descending order DESC order is used. For ascending ASC and descending DESC is used.

Syntaxes of above two orders are:

- ⇒ select * from table ORDER BY attribute DESC;
- ⇒ select * from table ORDER BY attribute ASC;

GROUP BY

GROUP BY clause is very important used to group rows from a table based on the values of one or more column. It is used with aggregate functions like **AVG**, **MAX**, **MIN**, **SUM** and **COUNT** to perform calculations on grouped data. Also we can perform operations on group within the group.

Syntax:

⇒ select aggreagate_function (attribute) from table GROUP BY attributes;

AS

The AS keyword in MySQL is used to assign an alias to a table or column, making it easier to reference or improving readability. It allows for temporary renaming with a query, which can simplify complex queries and result sets.

Where

This clause is used to filter records. It is used to extract only those records that fulfill a specified condition.

DISTINCT

The DISTINCT keyword in MySQL is used to

remove duplicate records from the results of a SELECT query. It ensures that the query returns only unique values in the specified columns.

Syntax:

⇒ select DISTINCT attribute from table;

BETWEEN

The BETWEEN clause is used to show the values/
contents of the table between a given limit. It filter the
result set within a specified range.

Syntax:

⇒ select column_name from table where column_name BETWEEN value1 AND value2;

Count & Count(*)

Used to count the number of rows in a table. This function counts all rows regardless of whether they contain NULL values.

Syntax:

- ⇒ select count (*) attribute_name from table;
- ⇒ select count (attribute_name) from table;

HAVING

The HAVING clause is similar to the WHERE clause but is specifically applied after grouping and aggregation, allowing you to filter on the results of aggregate functions like COUNT, SUM, AVG, and others.

Syntax:

⇒ select aggreagate_function (attribute) from table GROUP BY attributes HAVING count (attribute) >1;

AND & OR

The AND & OR operators are used to filter records based on more than one conditions:

- The AND operator displays a record if all the conditions separated by AND are true.
- The AND operator displays a record if any of the conditions separated by AND are true.

IN

The IN operator allows you to specify multiple values in a where clause. It is a shorthand for multiple OR conditions.

⇒ SELECT attribute_name(s) FROM table_name
WHERE attribute_name IN (value1, value2, ...);

LIKE

The LIKE operator is used in a WHERE clause to search for a specified pattern in a column.

Syntax:

- ⇒ SELECT column1...FROM table_name
 WHERE columnN LIKE pattern;
- **1.** The percent sign (%) represents zero, one, or multiple characters
- **2.** The underscore sign (_) represents one, single character

IS NULL & IS NOT NULL

These keywords are used for checking that the values of attributes checked are **NULL** or not.

Syntax:

⇒ select attribute_name from table where attribute IS NULL;

⇒ select attribute_name from table where attribute IS NOT NULL;

JOINS

Joins allows to retrieve related data from multiple tables in a single query, avoiding the need for different separate queries. There are multiple types of joins such as inner, right, left etc.

Syntax:

⇒ Select column_list from table1 JOIN table2 ON table1. column = table1;

INNER JOIN:

The joins in which both the tables have matching values in them are called inner join.

Left Join:

This join return all rows from the left table and matching rows in right table.

Cross join:

A cross join is type of join that return cartesian product of rows from the tables in the join .

Equi join:

It is join operation in sql that combines two table based on a matching column between them.

Right Join:

This join return all rows from right table and matching rows from left table.

VIEWS

A MySQL view is a predefined select query that operates on existing data without duplicating it. A view acts as a virtual table.

Syntax:

⇒ create or replace VIEW view_name AS select column1, column2 from table_name where condition;

DELETE

DELETE statement is used to delete rows in a table. It deletes a specific row using where clause.

Syntax:

⇒ delete from table where column_name=
'value';

DROP

DROP statement is used to delete the whole table along with table structure, attribute and indexes.

Syntax:

⇒ drop table table_name;

TRUNCATE

The truncate statement is used to delete all data in the table not the whole table.

Syntax:

⇒ truncate table_name;

Sub Query

Subqueries are also known as inner queries or nested queries. It is embedded inside another query and acts as input or output for that query.

Syntax:

⇒ Select column1, column2... from table where column operator (select column from another_table where condition); column1, column2, ...: The columns you want to retrieve.

GRANT

Grant is a statement used to assign privileges to user accounts, allowing them to perform specific actions on database projects.

PRIVILEGES

Privileges are the rights or permissions assigned to users that determine what actions they can perform on the database.

NORMALIZATION TABLES



CREATE DATABASE HOTEL_CHAIN

CREATE Hotel_Branch Table

INSERTING VALUES IN HOTEL_BRANCH

3 NF OF HOTEL_BRANCH

CREATE STAFF TABLE

INSERTING VALUES IN STAFF

```
mysql> INSERT INTO staff values('1','haram','multan','manager','10'),('2','ahmad','sheikhpura','sweeper','20'),('3','sohail','lahore','
receptionist','30');
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 warnings: 0

mysql> select * from staff;

| s_id | s_name | s_address | s_role | R_id |

1 | haram | multan | manager | 10 |
2 | ahmad | sheikhpura | sweeper | 20 |
3 | sohail | lahore | receptionist | 30 |

3 rows in set (0.00 sec)
```

3RD NORMAL FORM OF STAFF

```
mysql> select s_name, s_address, s
-> -\C
mysql> select s_name,s_address,s_role from staff;

| s_name | s_address | s_role |
| haram | multan | manager |
| ahmad | sheikhpura | sweeper |
| sohail | lahore | receptionist |
| s rows in set (0.00 sec)
```

ADD s_id COLUMN IN HOTEL BRANCH TABLE

```
mysql> ALTER table hotel_branch ADD s_id INT(5);
Query OK, O rows affected, 1 warning (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> DESCRIBE Hotel_branch;
 Field
                                 Null | Key | Default | Extra
                Type
  H_id
                int
                                 NO
                                          PRI
                                                 NULL
  h_name
                varchar(25)
                                 YES
                                                 NULL
  h_address
                varchar(30)
                                                 NULL
                                 YES
                                                 NULL
  rows in set (0.00 sec)
```

CHANGE COLUMN NAME (FROM s_id TO staff_id)

```
mysql> ALTER table Hotel_branch RENAME COLUMN s_id to staff_id;
Query OK, O rows affected (0.03 sec)
Records: O Duplicates: O warnings: O
mysql> DESCRIBE Hotel_branch;
 Field
                                      Null | Key | Default | Extra
                  Type
  H_id
                   int
                                       NO
                                                         NULL
                varchar(25)
varchar(30)
int
  h_name
h_address
                                                         NULL
                                                         NULL
                                       YES
  staff_id
                                                         NULL
  rows in set (0.00 sec)
```

MAKE staff_id FOREIGN KEY

INSERTING VALUES IN FOREIGN KEY

```
mysql> Update Hotel_branch set staff_id='1' where H_id='1001';
Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> Update Hotel_branch set staff_id='2' where H_id='1002';
Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> Update Hotel_branch set staff_id='3' where H_id='1003';
Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0
```

SELECT FROM HOTEL BRANCH

CREATE ROOM_BOOKING TABLE

```
mysql> create table Room_booking(room_id INT(5) PRIMARY KEY, r_no INT(6), check_in_date INT(20), check_out_date INT(20), weekend_prici
ng INT(20), hoilday_pricing INT(19), early_bird_offers INT(25));
Query OK, 0 rows affected, 7 warnings (0.04 sec)
 mysql> DESCRIBE Room_booking;
                             | Type | Null | Key | Default | Extra
   room_id
                                         NO
   r_no
                                int
                                         YES
                                                            NULL
                               int
   check_in_date
                                                            NULL
  check_out_date
weekend_pricing
                                int
                                                            NULL
                                int
                                         YES
                                                            NULL
  hoilday_pricing
early_bird_offers
                               int
                                                            NULL
                               int
                                         YES
                                                            NULL
   rows in set (0.00 sec)
```

MODIFY CHECK_IN & CHECK_OUT DATES

```
mysql> ALTER TABLE Room_booking
-> MODIFY COLUMN check_in_date DATE;
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER table Room_booking MODIFY COLUMN check_in_date DATE;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER table Room_booking MODIFY COLUMN check_out_date DATE;
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

Records: 0 Duplicates: 0 Warnings: 0
```

DESCRIBE ROOM_BOOKING

Field	Type Null	Key Default	Extra
room_id r_no check_in_date check_out_date weekend_pricing hoilday_pricing early_bird_offers	int NO int YES date YES date YES int YES int YES int YES int YES	PRI NULL NULL NULL NULL NULL NULL NULL NULL	

MODIFY EARLY_BIRD_OFFERS & INSERTING VALUES

```
mysql> ALTER table Room_booking MODIFy COLUMN early_bird_offers varchar(29);
Query OK, 0 rows affected (0.08 sec)
mysql> INSERT INTO Room_booking values('10','202','2025-01-05','2025-01-25','8000','9000','40%');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Room_booking values('20','504','2025-02-4','2025-02-8','7000','8000','30%');
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Room_booking values('30','301','2025-07-4','2025-07-8','8000','12000','30%');
Query OK, 1 row affected (0.01 sec)
```

SELECT FROM ROOM_BOOKING

room_id	r_no	check_in_date	check_out_date	weekend_pricing	hoilday_pricing	early_bird_offers
10	202	2025-01-05	2025-01-25	8000	9000	
20	504	2025-02-04	2025-02-08	7000	8000	
30	301	2025-07-04	2025-07-08	8000	12000	

ADD STAFF_ID FOREIGN KEY IN ROOM BOOKING

```
mysql> ALTER table room_booking ADD FOREIGN KEY (STAFF_ID) REFERENCES staff(s_id);
Query OK, 3 rows affected (0.12 sec)
Records: 3 Duplicates: 0 warnings: 0
mysql> DESCRIBE room_booking;
                                                 Null | Key | Default | Extra
  Field
                             Type
  room_id
                              int
                                                  NO
                                                            PRI
                                                                    NULL
                              int
                                                                    NULL
  r_no
  check_in_date
                              date
                                                 YES
                                                                    NULL
 check_out_date
weekend_pricing
hoilday_pricing
early_bird_offers
                              date
                                                                    NULL
                              int
                                                                    NULL
                              int
                                                                    NULL
                              varchar(29)
                                                                    NULL
  STAFF_ID
                                                                    NULL
  rows in set (0.00 sec)
```

INSERT VALUES IN FOREIGN KEY

```
mysql> Update room_booking set STAFF_ID='1' where room_id='10';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> Update room_booking set STAFF_ID='2' where room_id='20';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> Update room_booking set STAFF_ID='3' where room_id='30';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

SELECT FROM ROOM_BOOKING

room_id	r_no	check_in_date	check_out_date	weekend_pricing	hoilday_pricing	early_bird_offers	STAFF_ID
10	202	2025-01-05	2025-01-25	8000	9000	30%	1
20	504	2025-02-04	2025-02-08	7000	8000		2
30	301	2025-07-04	2025-07-08	8000	12000		3

3 NF OF ROOM_BOOKING

```
mysql> select r_no,weekend_pricing,holiday_pricing,early_bird_offers from Room_booking;

ERROR 1054 (42822): Unknown column 'holiday_pricing' in 'field list'
mysql> select r_no,weekend_pricing,hoilday_pricing,early_bird_offers from Room_booking;

| r_no | weekend_pricing | hoilday_pricing | early_bird_offers |

| 202 | 8000 | 9000 | 40%
| 504 | 7000 | 8000 | 30%
| 301 | 8000 | 12000 | 30%

| 3 rows in set (0.00 sec)
```

MAKE ROOM_ID FOREIGN KEY IN STAFF TABLE

CREATE CUSTOMER TABLE

ADD MISING C_ADDRESS COLUMN IN CUSTOMER TABLE

```
mysql> ALTER table customer ADD c_address varchar(30);
Query OK, O rows affected (0.08 sec)
Records: O Duplicates: O Warnings: O
mysql> DESCRIBE customer;
                             | Null | Key | Default | Extra
 Field
               Type
 c_id
               int
                               NO
                                        PRI
                                              NULL
  c_name
               varchar(15)
                                              NULL
  r_id
  c_address | varchar(30) |
                               YES
                                              NULL
  rows in set (0.00 sec)
```

INSERTING VALUES

```
mysql> INSERT INTO customer values('100','NOOR', '10', 'Farooqabad');
query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO customer values('200','NIMRA', '20', 'Sheikhpura'),('300','shanzey', '30', 'Sheikhpura');
query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 warnings: 0

mysql> select " from student;
ERROR 1146 (42502): Table 'hotel_chain.student' doesn't exist
mysql> select " from customer;
| c_id | c_name | r_id | c_address |
| 100 | NOOR | 10 | Farooqabad |
| 200 | NIMRA | 20 | Sheikhpura |
| 3 rows in set (0.00 sec)
```

MAKE r_id FOREIGN KEY IN CUSTOMER TABLE

CREATE LOYALTY POINTS TABLE

```
mysql> create table loyalty_points(point_id INT(10) PRIMARY KEY, service_points INT(8), upgrade_points INT(6),cus_id INT(9));
Query OK, 0 rows affected, 4 warnings (0.04 sec)
mysql> DESCRIBE loyalty_points;
                   Type | Null | Key | Default | Extra
 Field
 point_id
                         NO
                                 PRI
                                       NULL
 service_points
                   int
                         YES
                                       NULL
 upgrade_points
                   int
                         YES
                                       NULL
 cus_id
                   int
                         YES
                                       NULL
 rows in set (0.00 sec)
```

MAKE cus_id FOREIGN KEY

```
mysql> ALTER table loyalty_points ADD FOREIGN KEY (cus_id) REFERENCES customer (c_id);
Query OK, O rows affected (0.14 sec)
Records: O Duplicates: O Warnings: O
mysql> describe loyalty_points;
  Field
                       Type | Null | Key | Default | Extra
  point_id
                        int
                                 NO
                                          PRI
                                                 NULL
  service_points
                        int
                                                  NULL
  upgrade_points
                        int
                                                 NULL
                                YES
                        int
                                          MUL
  cus_id
                                YES
                                                 NULL
  rows in set (0.00 sec)
```

INSERTING VALUES & DESCRIBE

```
mysql> INSERT INTO loyalty_points values('104','300','50','100');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO loyalty_points values('208','500','100','200'),('310','400','60','300');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from loyalty_points;

| point_id | service_points | upgrade_points | cus_id |

104 | 300 | 50 | 100 |
208 | 500 | 100 | 200 |
310 | 400 | 60 | 300 |

3 rows in set (0.00 sec)
```

CREATE FEEDBACK TABLE

```
mysql> create table feedback(fb_id INT(15) PRIMARY KEY, fb_type varchar(20), comment varchar(30), customer_id INT(10));
Query OK, O rows affected, 2 warnings (0.04 sec)
mysgl> DESCRIBE feedback:
                             Null | Key | Default | Extra
 Field
               Type
 fb_id
               int
                              NO
                                     PRI
                                           NULL
               varchar(20)
 fb_type
                              YES
                                           NULL
                varchar(30)
                             YES
 comment
                                           NULL
 customer_id |
                              YES
                                           NULL
 rows in set (0.00 sec)
```

MAKE customer_id FOREIGN KEY IN FEEDBACK TABLE

```
mysql> INSERT INTO feedback values('203', 'compliment', 'great food', '100');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO feedback values('202', 'complaint', 'late services', '200');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO feedback values('300', 'compliment', 'good services', '300');
Query OK, 1 row affected (0.01 sec)

mysql> select * from feedback;

| fb_id | fb_type | comment | customer_id |

202 | complaint | late services | 200 |
203 | compliment | great food | 100 |
300 | compliment | good services | 300 |

3 rows in set (0.00 sec)
```

INSERTING VALUES

```
mysql> ALTER table feedback ADD FOREIGN KEY (customer_id) REFERENCES customer (c_id);
Query OK, O rows affected (0.14 sec)
Records: O Duplicates: O Warnings: O
 ysql> describe feedback;
 Field
                                      Null | Key | Default | Extra
                    Type
  fb_id
                     int
                                       NO
                                                        NULL
  fb_type
                     varchar(20)
                                                        NULL
                     varchar(30)
                                                        NULL
  customer_id
                                                        NULL
  rows in set (0.00 sec)
```

CREATE PRE ORDER TABLE

```
mysql> create table Preorder(order_id INT(30) PRIMARY KEY,meal varchar(40),taxi_services varchar(10),cust_id INT(10));
Query OK, 0 rows affected, 2 warnings (0.04 sec)
ysql> DESCRIBE Preorder;
 Field
                 Type
                               Null | Key | Default | Extra
order_id
                 int
                               NO
                                       PRI
                                             NULL
 meal
                 varchar(40)
                               YES
                                             NULL
 taxi_services
                 varchar(10)
                               YES
                                             NULL
 cust_id
                 int
                               YES
                                             NULL
 rows in set (0.00 sec)
```

MADE cus_id FOREIGN KEY

```
mysql> ALTER table Preorder ADD FOREIGN KEY (cust_id) REFERENCES customer (c_id);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 warnings: 0
mysql> describe Preorder:
  Field
                                        Null | Key | Default | Extra
                      Туре
  order_id
                       int
                                                  PRI
                                         NO
                                                          NULL
  meal
                       varchar(40)
                                         YES
                                                          NULL
  taxi_services
                       varchar(10)
                                        YES
                                                          NULL
  cust_id
                       int
                                        YES
                                                  MUL
                                                          NULL
  rows in set (0.00 sec)
```

INSERTING VALUES IN ORDER

CREATE TASK TABLE

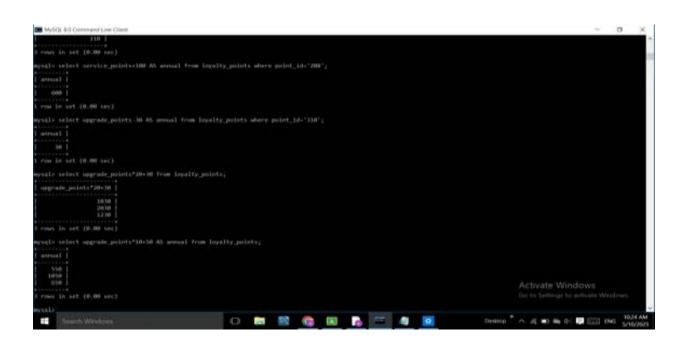
ADD st_id FOREIGN KEY AND DESCRIBE IT

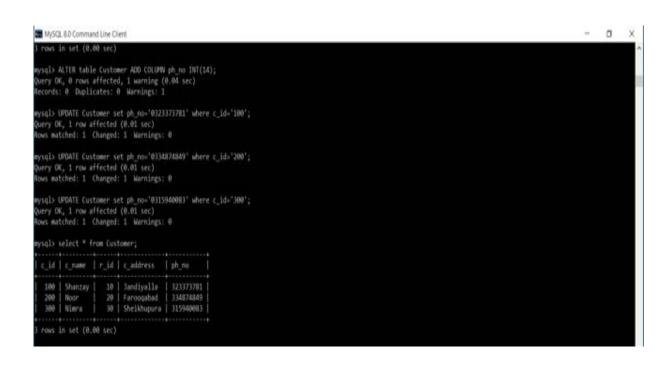
INSERTING VALUES IN TASK

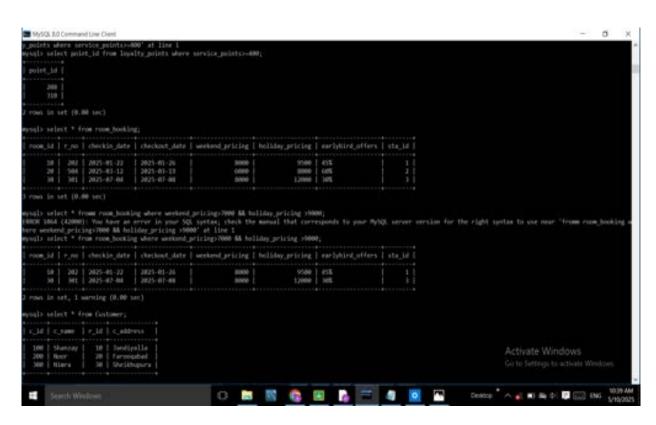
PRACTICAL IMPLEMENTATION OF MYSQL QUERIES

ARITHMETIC & LOGICAL OPERATIONS ON LOYALTY_POINTS TABLE

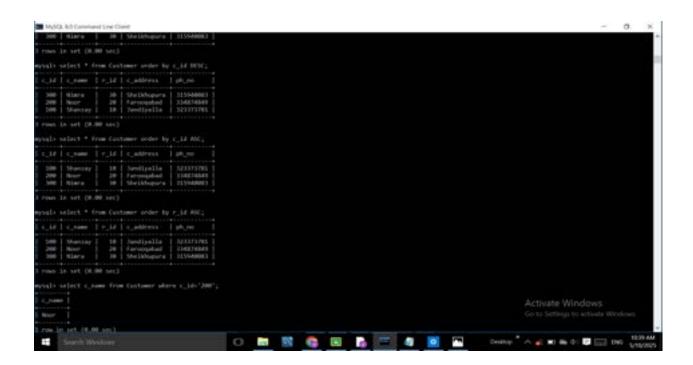
LOGICAL OPERATIONS ADDING ph_no COLUMN IN CUSTOMER



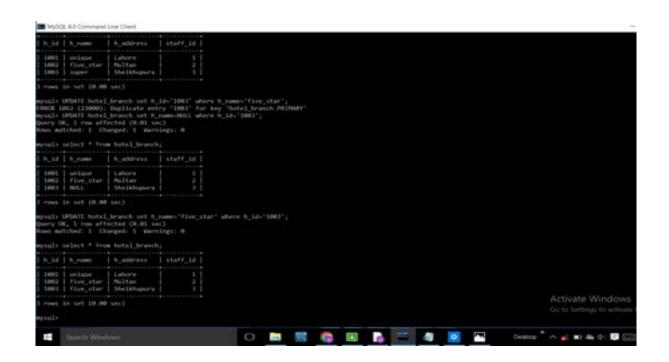




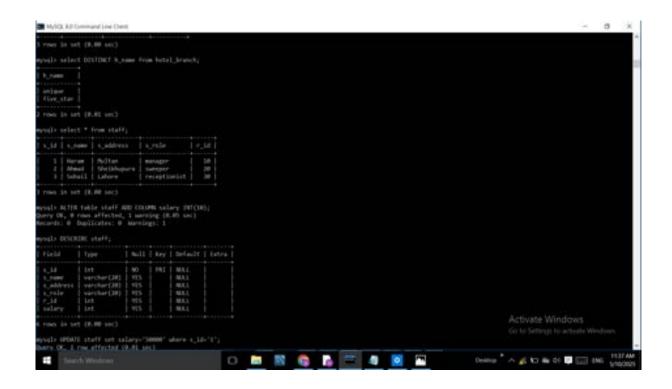
ORDER BY CLAUSE ON CUSTOMER



GIVING TWO h_ids SAME NAME



DISTINCT CLAUSE AND ADDING SALARY COLUMN IN STAFF TABLE



BETWEEN, HAVING AND IN CLAUSES

```
Line to set (0.00 sec)

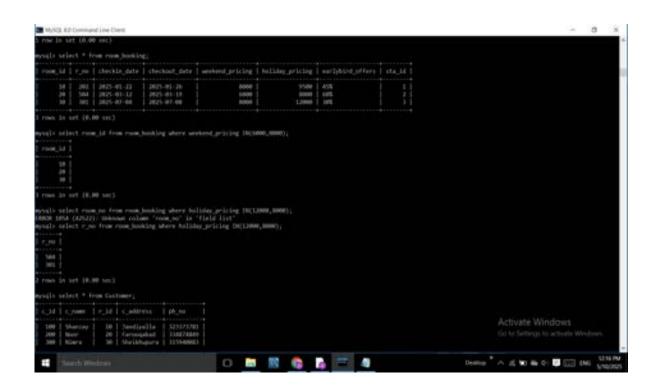
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savishlary) |

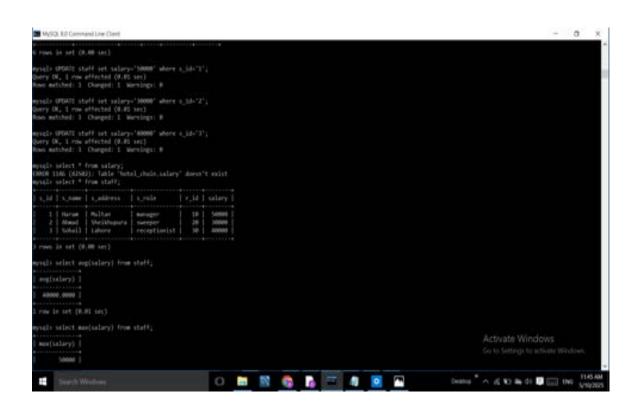
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Secretarian communication comm



ARITHMETIC OPERATIONS ON STAFF



COUNT & COUNT(*)

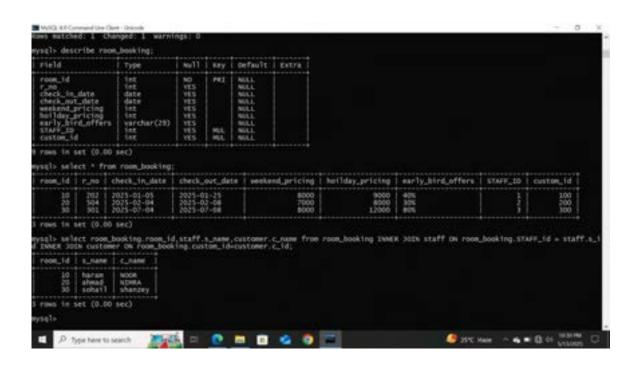
VIEW

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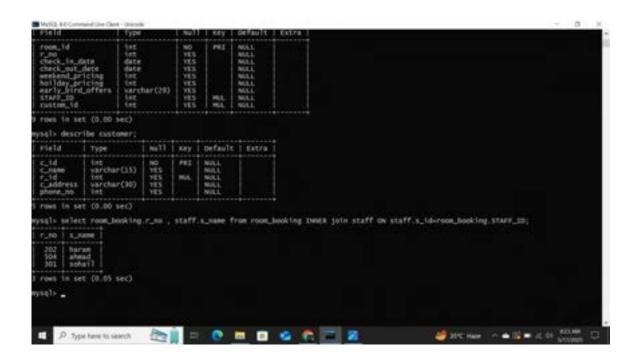
LIKE CLAUSE ON CUSTOMER

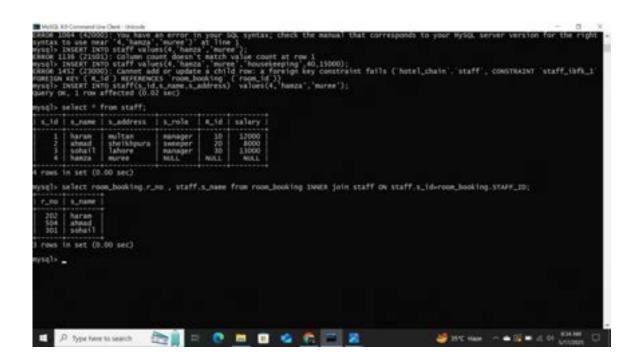
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JOINS

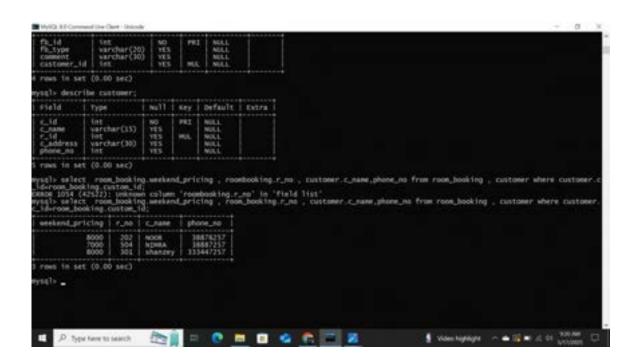


INNER JOIN

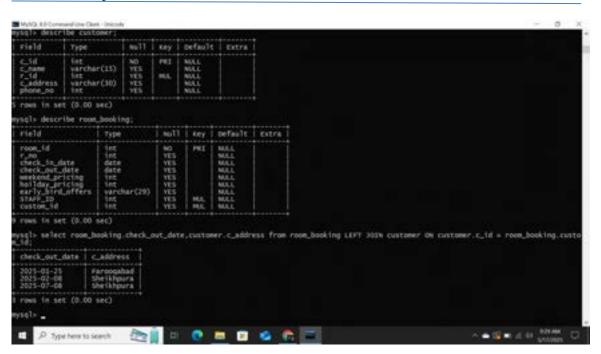




EQUIJOIN



LEFT JOIN

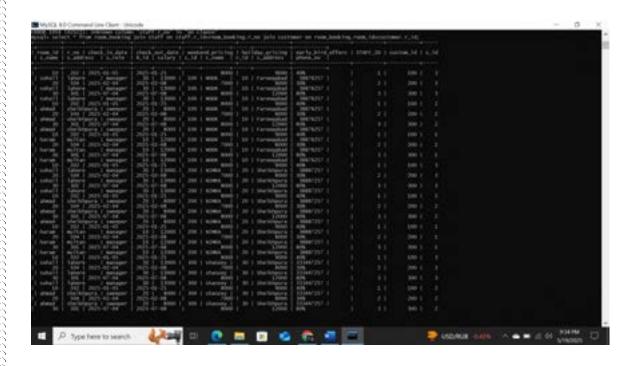


RIGHT JOIN



CROSS JOIN

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		room_booking.r_n	o from staff cross	join room_booking	on staff,r_iden	oom_book1	ng_room_id	



DELETE ROW4 FROM STAFF

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s_1d		s_address	a_role	R_Sd	salary	7							
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rows	in set (0	.00 sec)				-							
ysels wery o	BELETE P	and staff web affected (0.0	RE s_addre	55+ 'MO	ree";								
ysel»	select *	from staff;											
s_id	s_name	s_address	s_role	8_56	salary	1							
1 2 3	haram absad schail	multan sheikhpura labore	manager sweeper manager	10 20 30	12000 8000 13000								
	-	.00 sec)	*******										

DROP

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equals describe task;

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equals describe task;
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TRUNCATE

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Desy De. 8 ross affected (0.06 sec)

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Lesis 1004 (45700); Yas have an error in your 50% syntax; check the manual that corresponds to your MySo% server version for the right system to see near 'at line 1 in your 50% syntax; check the manual that corresponds to your MySo% server version for the right mysal's show tables;

Lesis 10.00 sec)

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Tables, is,college

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I row in set (0.00 sec)

Mysal's show databasee:

Lesis 10.00 sec)

Mysal's show databasee:
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SUBQUERY

LOWEST SALARY PRINTED

```
| Naram | 10 | Select s_name_K_id , salary from staff where salary in( select min(salary) from staff group by s_role); | S_mane | K_id | salary | |
| haram | 10 | 12000 | |
| ahmad | 20 | 8000 |
| rows in set (0.00 sec) |
| mysql> ____
```

MIN SALARY USING GROUP BY FROM S-ID PRINTED

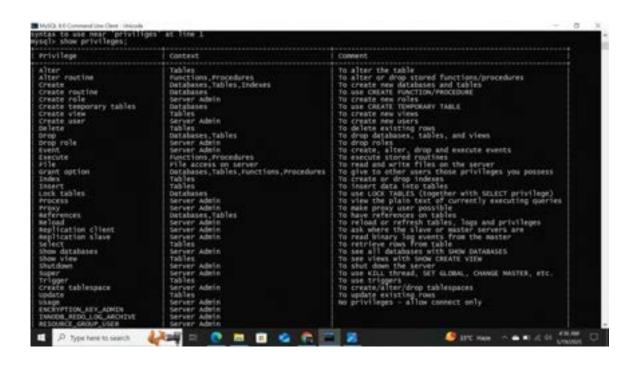
 λ and λ

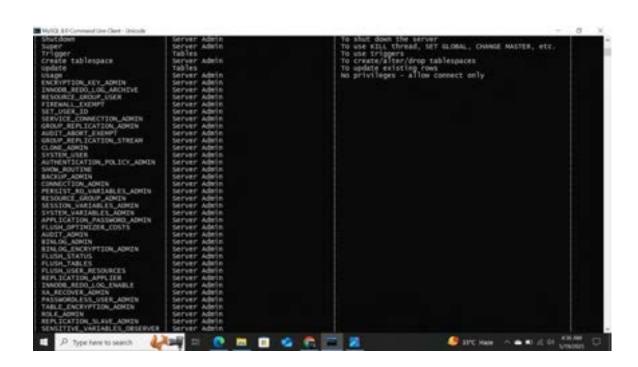
GRANT

■ MyVQL EF Connect the Clark - Inicole	- 0 X
wysq): create user identified by '1234'; CRROR 1084 (42000): you have an error in your SQL syntax; check the earmal that corresponds to syntax to use mear 'by '1234' at line 1 mysq): create user moor identified by '1234'; Overy OK, 0 rows affected (0.06 sec)	o your MySQL server version for the right
mysql> create role manager; skede 1396 (MY000): Operation CREATE MOLE failed for "manager"8"%" mysql> create BOLE manager; skede 1396 (MY000): Operation CREATE MOLE failed for "manager"8"%" mysql> create BOLE manager_role; Query OK, O rows affected (0.02 sec)	
mysql+ grant manager_role to moor: Query OK, D roms affected (0.02 sec)	
nysęl> show grants;	
Grants for root@localbost	
L GRANT SELECT, INDERT, UPDATE, DELETE, CREATE, SHOP, RELOAD, SHITSOWN, PROCESS, FILE, REFREND CREATE TEMPORARY TABLES, LOCK TARLES, EMECUTE, REPLICATION SLAVE, REPLICATION CLIENT, CREATE UTIME, CREATE USER, EVENT, TRISGER, CREATE TABLESPACE, CREATE ROLE, DROP BOLE ON "," TO "FOOT	VIEW, SHOW VIEW, CREATE ROUTINE, ALTER RO
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PRIVILEGES





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