HOTEL CHAIN

MYSQL QUERIES ON NORMALIZATION PROJECT

GROUP 16

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Submitted to:

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DESCRIPTION

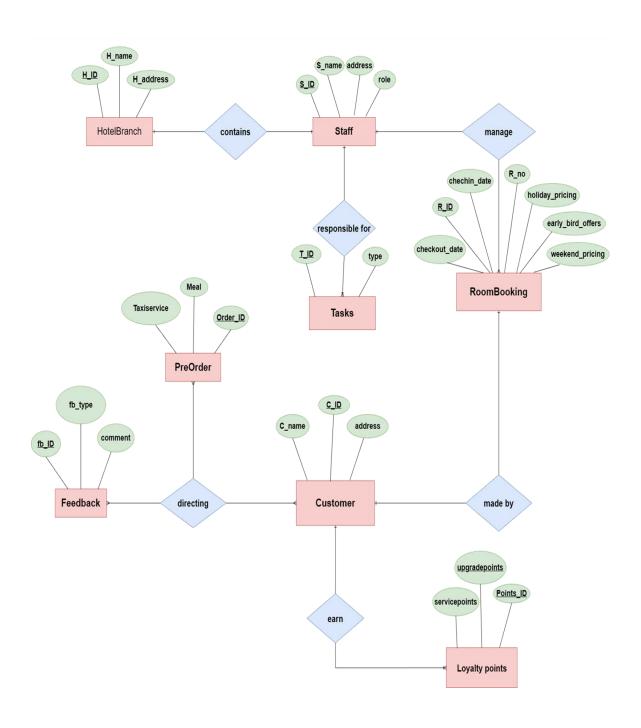
SQL stands for structure query language. It is a widely used, open source relational database management system.

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, staff_id)
- 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;
- \Rightarrow 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.

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

```
⇒ select * from table ORDER BY attribute DESC;
```

⇒ select * from table ORDER BY attribute ASC;

GROUP BY

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

Syntax:

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

AS

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

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 (*)

This function counts all rows in a table 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.

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

Syntax:

NULL or not.

- ⇒ 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.

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;

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.

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

```
MySQLECCommand Line Client - Unicode

| h_address | varchar(30) | YES | NULL |
| rows in set (0.00 sec)
| mysql> select * from Hotel_branch;
| H_id | h_name | h_address |
| 1001 | unique | lahore |
| 1002 | five_star | Multan |
| 1003 | super | Sheikhpura |
| 3 rows in set (0.00 sec)
```

3 NF OF HOTEL_BRANCH

CREATE STAFF TABLE

```
sysql> create table staff(s_id INT(5) PRIMARY KEY, s_name varchar(20),s_address varchar(20),s_role varchar(19),R_id INT(5));
suery OK, O rows affected, 2 warnings (0.04 sec)
ysql> DESCRIBE staff;
                                 Null | Key |
                                                 Default | Extra
Field
s_id
                                          PRI
                int
                                  NO
                                                  NULL
                varchar(20)
                                                  NULL
NULL
                varchar
s_role
R_id
               varchar(19)
int
                                 YES
 rows in set (0.00 sec)
```

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 ADD s_id COLUMN IN HOTEL BRANCH

```
nysql> select s_name, s_address, s
ysql> select s_name,s_address,s_role from staff;
 -mysql> ALTER table hotel_branch ADD s_id INT(5);
|Query OK, O rows affected, 1 warning (0.03 sec)
| Records: O Duplicates: O warnings: 1
 Smysql> DESCRIBE Hotel_branch;
                                                           Default | Extra
     Field
                     Type
                                         Null
                                                Key
     H_id
                                         NO
                                                           NULL
                                                           NULL
NULL
NULL
                      varchar(25)
                                         YES
                     varchar(30)
int
    rows in set (0.00 sec)
```

TABLE

CHANGE COLUMN NAME (FROM s_id TO staff_id)

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

```
mysql> select * from Hotel_branch;

| H_id | h_name | h_address | staff_id |
| 1001 | unique | lahore | 1 |
| 1002 | five_star | Multan | 2 |
| 1003 | Super | Sheikhpura | 3 |
| 3 rows in set (0.00 sec)
```

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;
  Field
                            | Type | Null | Key | Default | Extra
  room_id
                                                  PRI
                                                          NULL
  r_no
check_in_date
                                                          NULL
                              int
                                                          NULL
  check_out_date
                              int
                                        YES
                                                          NULL
                              int
  weekend_pricing
                                                          NULL
  hoilday_pricing
early_bird_offers
                               int
                                                          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
```

DESCRIBE ROOM_BOOKING

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	30%
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

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

```
mysql> 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 | 40% | 1 |
| 20 | 504 | 2025-02-04 | 2025-02-08 | 7000 | 8000 | 30% | 2 |
| 30 | 301 | 2025-07-04 | 2025-07-08 | 8000 | 12000 | 30% | 3 |
| 3 rows in set (0.00 sec)
```

3 NF OF ROOM_BOOKING

MAKE ROOM_ID FOREIGN KEY IN STAFF

CREATE CUSTOMER TABLE

ADD MISING C_ADDRESS COLUMN IN CUSTOMER TABLE

INSERTING VALUES

```
mysql> INSERT INTO customer values('100','NOR', '10', 'Farooqabad');
OMERY INSERT INTO customer values('200','NIMRA', '20', 'Sheikhpura'),('300','shanzey', '30', 'Sheikhpura');
OMERY OM, 2 rows affected (0.01 sec)
Mecords: 2 Duplicates: 0 Warmings: 0
Mysql> select ' from student;
EKROR 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

MAKE cus_id FOREIGN KEY

INSERTING VALUES & DESCRIBE

CREATE FEEDBACK TABLE

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');

mysql> INSERT INTO feedback values('300', 'compliment', 'good services', '300');

mysql> Insert Into feedback values('300', 'compliment', 'good services', '300');

mysql> select * from feedback;

I fb_id | fb_type | comment | customer_id |

202 | complaint | late services | 200 |

203 | compliment | great food | 100 |

3 rows in set (0.00 sec)
```

INSERTING VALUES

CREATE PRE ORDER TABLE

MADE cus_id FOREIGN KEY

INSERTING VALUES IN ORDER

CREATE TASK TABLE

ADD st_id FOREIGN KEY AND INSERTION

PRACTICAL IMPLEMENTATION

ARITHMETIC & LOGICAL OPERATIONS ON LOYALTY_POINTS TABLE

LOGICAL OPERATIONS ADDING ph_no COLUMN IN CUSTOMER

```
# Trans in set (#.00 sec)

mysqls ALTER table Customer ACO COLUMN ph_no INT(18);

dorsy OK, 8 rams affected, 3 samming (0.06 sec)

bounds; ORTONIC Customer act ph_nos-02237778; where a_id-1800*;

guary OK, 1 raw affected (0.08 sec)

mysqls ORTONIC Customer act ph_nos-02237778; where a_id-1800*;

guary OK, 1 raw affected (0.08 sec)

mysqls ORTONIC Customer act ph_nos-02337778; where a_id-1800*;

guary OK, 1 raw affected (0.08 sec)

mysqls ORTONIC Customer act ph_nos-0234878600; where a_id-1800*;

guary OK, 1 raw affected (0.08 sec)

mysqls ORTONIC Customer act ph_nos-0234878600; where a_id-1800*;

guary OK, 1 raw affected (0.08 sec)

mysqls ORTONIC Customer act ph_nos-0234878600; where a_id-1800*;

mysqls ORTONIC Customer;

| c_id| | x_mans| r_id| | x_manings| 0

mysqls orlowed | Namenings| 0

mysqls orlowed | 0

mysqls orlowed | 0

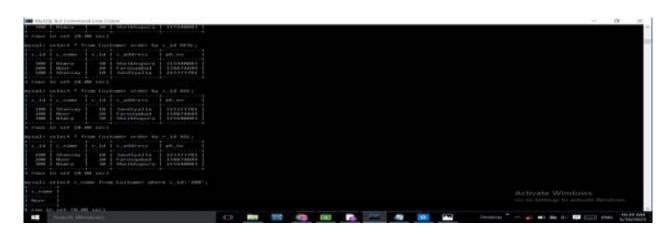
mysqls orlowed | 0

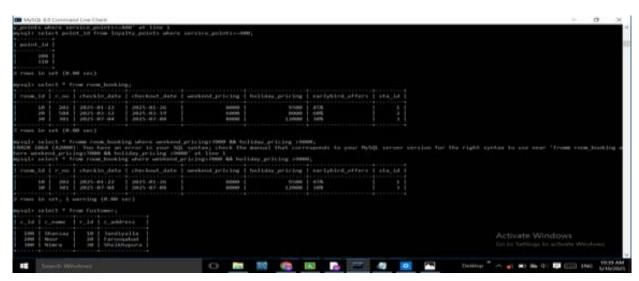
mysq
```

```
Activate Winstows

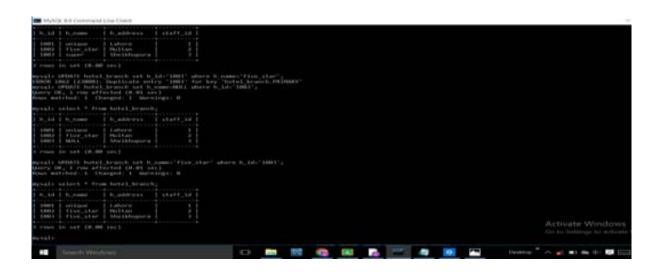
To specify the improduction of the street of the stre
```

ORDER BY CLAUSE ON CUSTOMER

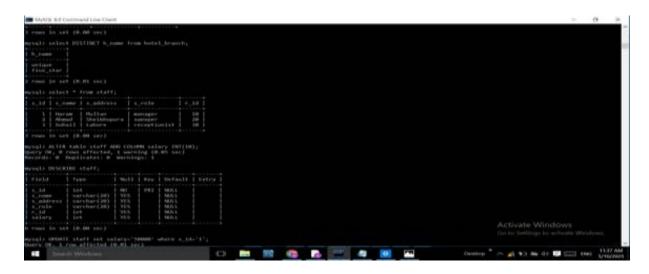




GIVING TWO h_ids SAME NAME



DISTINCT CLAUSE AND ADDING SALARY COLUMN IN STAFF TABLE



BETWEEN, HAVING AND IN CLAUSES

```
Philosocommunities Constituents

Taying a select em_rapes from Employee where jobs assistant OR salary SETWEEN 15000 AND 30000;

1 dm_rapes

2 rows in set (0.00 sec)

Anguals select em_rapes from Employee where jobs manages OR salary SETWEEN 15000 AND 30000;

2 m_rapes

A rows in set (0.00 sec)

Myssgls select em_name from Employee where salary IN (15000,30000);

1 em_rapes

A rows in set (0.00 sec)

Myssgls select em_name from Employee where salary IN (15000,30000);

2 rows in set (0.00 sec)

Myssgls select em_name from Employee where salary IN (15000,30000);

2 rows in set (0.00 sec)

Activate Windows

2 rows in set (0.00 sec)

Activate Windows

3 rows in set (0.00 sec)
```

```
From the set (0.00 set)

spingle select man(salary) from staff uncor ar a_rule savins count(s_id)=1;

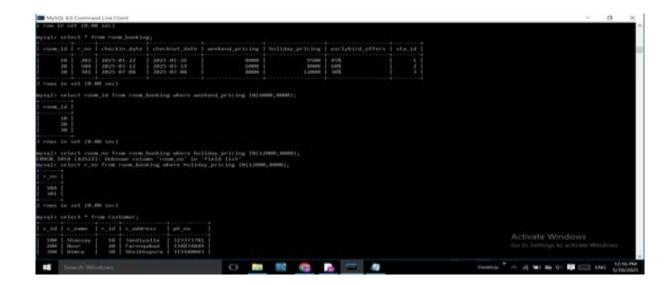
I man(salary) |

I min(salary) |

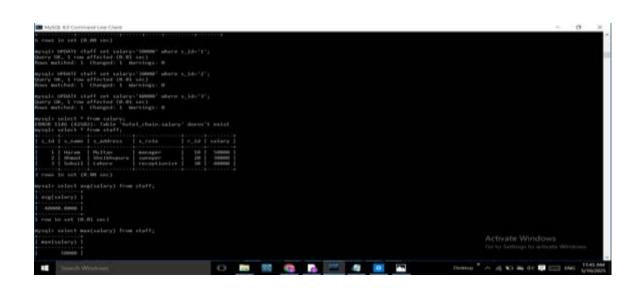
I min(
```

```
Activate Windows

| Washington | |
| Was
```



ARITHMETIC OPERATIONS ON STAFF



COUNT & COUNT (*)

```
| Staff - New | Staff | Staff
```

VIEW

LIKE CLAUSE ON CUSTOMER

```
I come to set (0.00 set)

square blue types Coptoner share agree like "vEg";

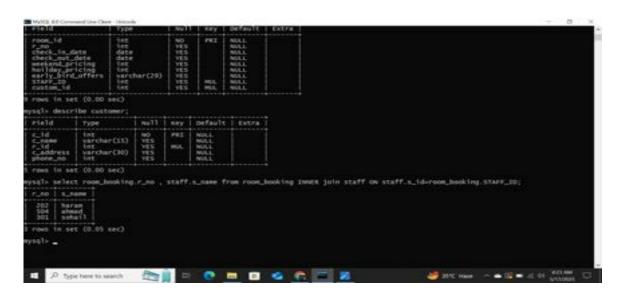
i types |

i types |
```

JOINS

rield Type			No.11		Gefault	Estra				
room_id r.no check_im_date check_not_date neckend_pricing holiday_pricing early_bind_affers btark_iD dankem_id		int int date date date int int varchar(29)	NO. 155 155 155 155 155 155 155 155 155 155	TRI MAIL	NEALL NEALL NEALL NEALL NEALL NEALL NEALL NEALL NEALL					
men in I	set (0.0									
	******	om room_booking			-					
	10 202 2023-01-05 20 304 2025-02-04 30 301 2025-02-04			7025-01-25		M_pricing 8000	hellday_pricing	early_bird_offers	STAFF_TO	100 200 300
3.0			2025-02-08 2025-07-08			P000 8000	8000 12000	NOTE.	-	
20	101									
20 30	101									
20 30 ces in s	set (0.0	0 sec) booking room to	staff.	name.	Customer.	name from	room_booking Inne	E 702H STAFF ON FOOM	booking. Str	AFF_5d = sta
20 30 own in s other and seven 30	met (0.0 ect rose In conto	0 sec) _booking_room_iseer GH recom_book	Lutaff.	Line_1de	Customer.	_name from	room_booking INNE	E 202H staff On room	book (ng. 57)	AFF_6d = sta
20 20 rows in 1 agt- agt INNER 20	met (0.0 ect rose Th conto	0 sec) _booking_room_to mer on room_book	staff.	Long Tol	CUSTOME?	_name from (_1d)	room_booking Innet	# JOSH STAFF ON FORM	booking.str	MF_td = sta

INNER JOIN



```
mysql> EMSERT INTO staff(s_id_s_name_s_address) values(4, hanza', muree');

Guery OK, 1 row affected (0.02 sec)

mysql> select * from staff;

| s_id | s_name | s_address | s_role | R_id | salary |

1 | haram | multan | manager | 10 | 12000 |
2 | ahmad | sheikhpura | sweeper | 20 | 8000 |
3 | sohail | labore | manager | 30 | 13000 |
4 | hamza | muree | NALL | NALL |
4 | rows in set (0.00 sec)

mysql> select room_booking.r_no , staff.s_name from room_booking INNER join staff on staff.s_id=room_booking.STAFF_ID;

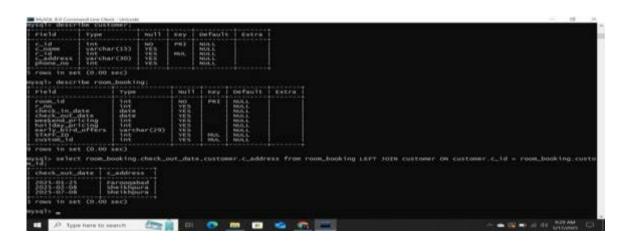
| r_no | s_name |
| 202 | haram |
| 504 | ahmad |
| 301 | sohail |
| 3 | rows in set (0.00 sec)

mysql> __
```

EQUI JOIN

MySQLEF-Comm	edite 0	ket Unicol	ir.				- 0
fb_id fb_type comment customer_id	war	char (20 char (30) YES YES YES	12	MELL	T	
rows in set	(0.00	sec)					
yaql> descri	be cus	tomer;					
Field	Type		Null	Key	Default.	Extra	
c_id c_name r_id c_address phone_no	me varchar(15) ves int ves idress varchar(30) ves		PRI MUL	NULL NULL NULL NULL NULL			
ross in set	(0.00	sec)					
idiroom_book	(ing.c) (2522)	ritor_id Unknow Lbookin	i; e colum g.weeke d;	s 'rees	shooking r	no' in	.r_no , customer.c_name.phone_no from room_booking , customer where custome 'field list' g.r_no , customer.c_name.phone_no from room_booking , customer where custom
weekend_pri	ctng	r_mo	c_name		one_no		
	8000 7000 8000	202 304 301	NOOR NDHRA Shanze		8878237 8887257 9447237		
roes in set	(0.00	sec)					
etl> -							

LEFT JOIN



RIGHT JOIN

CROSS JOIN

```
| Company | Comp
```

DELETE ROW4 FROM STAFF

DROP

```
equals drop task;
DROW this (Aller): Was have an erric in pose UD, spring shock the member that corresponds to your SyND, server version for the right system to one over 'task' at like t speak arms table task;
MARCH 1885 CR. 8 rows affected (EUR) and account to the country CR. 8 rows affected (EUR) and account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over 'task' at like t speak account to the right system to one over '
```

SUBQUERY

```
mysqlo select " from staff;

s_id | s_name | s_address | s_role | R_id | salary |

1 | harae | militar | manager | 30 | 12000 |

2 | ahead | shelkhoura | manager | 20 | 2000 |

3 | sobail | labore | manager | 30 | 12000 |

3 | rows in set (0.01 sec)

mysqlo select s_name,R_id from staff where salary=( select min(salary) from staff);

| s_name | R_id |
| ahead | | 20 |
| i row in set (0.01 sec)

mysqlo select s_name,R_id from staff where salary=( select max(salary) from staff);

| s_name | R_id | |
| sehail | | 20 |
| s_name | R_id |
| sehail | | 20 |
| s_name | R_id |
| sehail | | 20 |
| s_name | R_id |
| sehail | | 20 |
| s_name | R_id |
| sehail | | 20 |
| sehail |
```

TRUNCATE

```
wysel> truncate table course;
Owery OK, O rown affected (0.05 sec)

mysel> show tables;

| tables_in_college |

| course |

I row in set (0.00 sec)

mysel> select * from course;

Empty set (0.00 sec)
```

LOWEST SALARY PRINTED

MIN SALARY USING GROUP BY FROM S-ID PRINTED

```
mysql> select s_mame_R_id_salary from staff where salary>any( select min(salary) from staff group by s_role);

| S_name | R_id | salary |
| Name | 10 | 12000 |
| Sobail | 30 | 12000 |
| The salary |
| Sobail | 30 | 13000 |
| S_name | R_id | salary |
| S_name | R_id | salary |
| S_name | R_id | salary |
| Sobail | 30 | 13000 |
| Tow in set (0.00 sec)
| mysql>
```

GRANT

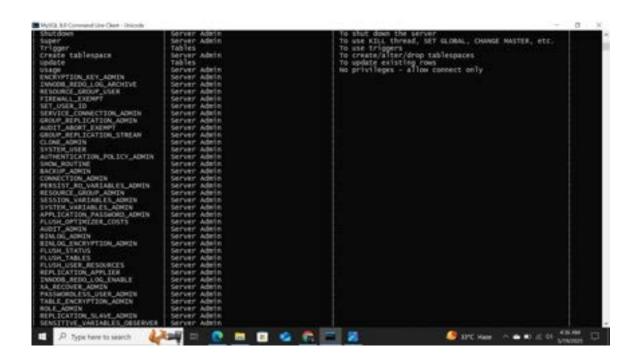
```
ANY STATEMENT AND ANY STATES AND ANY
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Spring to the season providings at less 1

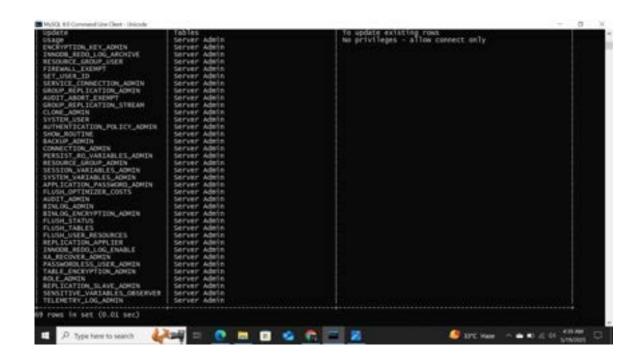
spring to the providing providing the providers providers the providers providing the providing training to the providers providing training to the providers providing training to the providers providers
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PRIVILEGES





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