

MY SQL PROJECT

BY

PRIYADHARSHINI

WHAT IS MYSQL ?

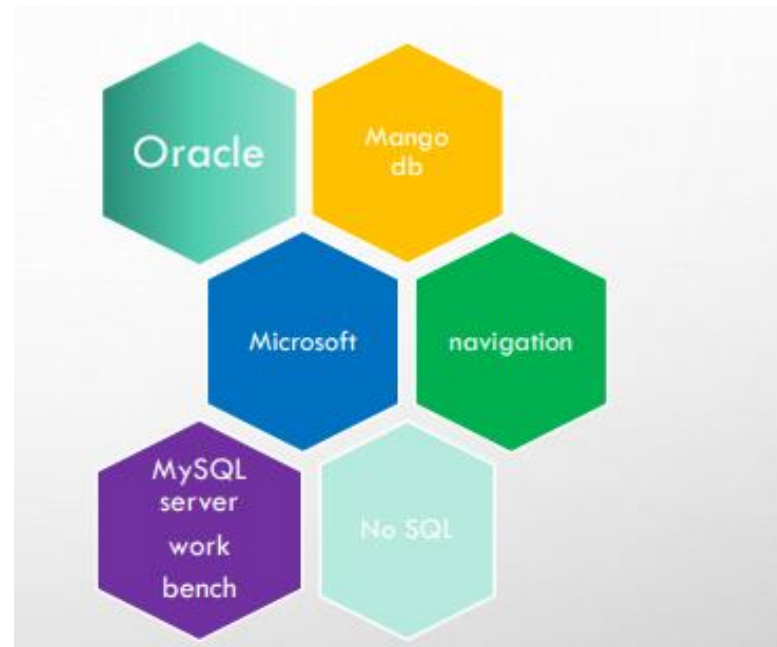
- ✓ MY SQL is the most popular open source relational database management system.
- ✓ MY SQL used for developing various web based software development.
- ✓ Developed by company MYSQL AB. (Based on CN C++).

MYSQL Workbench

- ✓ It is a visual database design tool that integrates are
- ✓ SQL development, administration, database design, creation and maintenance into a single integrated development environment for the MYSQL database system.
- ✓ MYSQL workbench 8.0. CE version.

MYSQL SERVERS

- ✓ Oracle
- ✓ Mango DB
- ✓ Microsoft server
- ✓ No SQL



DIFFERENCE BETWEEN RDBMS AND DBMS

| RDBMS | DBMS |
|---|-------------------------------------|
| Data stored is in table format | Data stored is in the file format |
| Multiple data elements are accessible together | Individual access of data elements |
| Data in the form of a table are linked together | No connection between data |
| Normalisation is not achievable | There is normalisation |
| Support distributed database | No support for distributed database |
| Data is stored in a large amount | Data stored is a small quantity |

DBMS KEYS



PRIMARY KEY

A primary key is a special attribute within a table that uniquely identifies each row or record in that table.

CANDIDATE KEY

It is a super key no repeated data is called a candidate key.

SUPER KEY

A Single key or a group of multiple keys that can uniquely identify tuples in table.

ALTERNATE KEY

All the key which are not primary keys are called alternate keys.

FOREIGN KEY

It is a key it acts as a primary key in one table and if acts as secondary key in a another table.

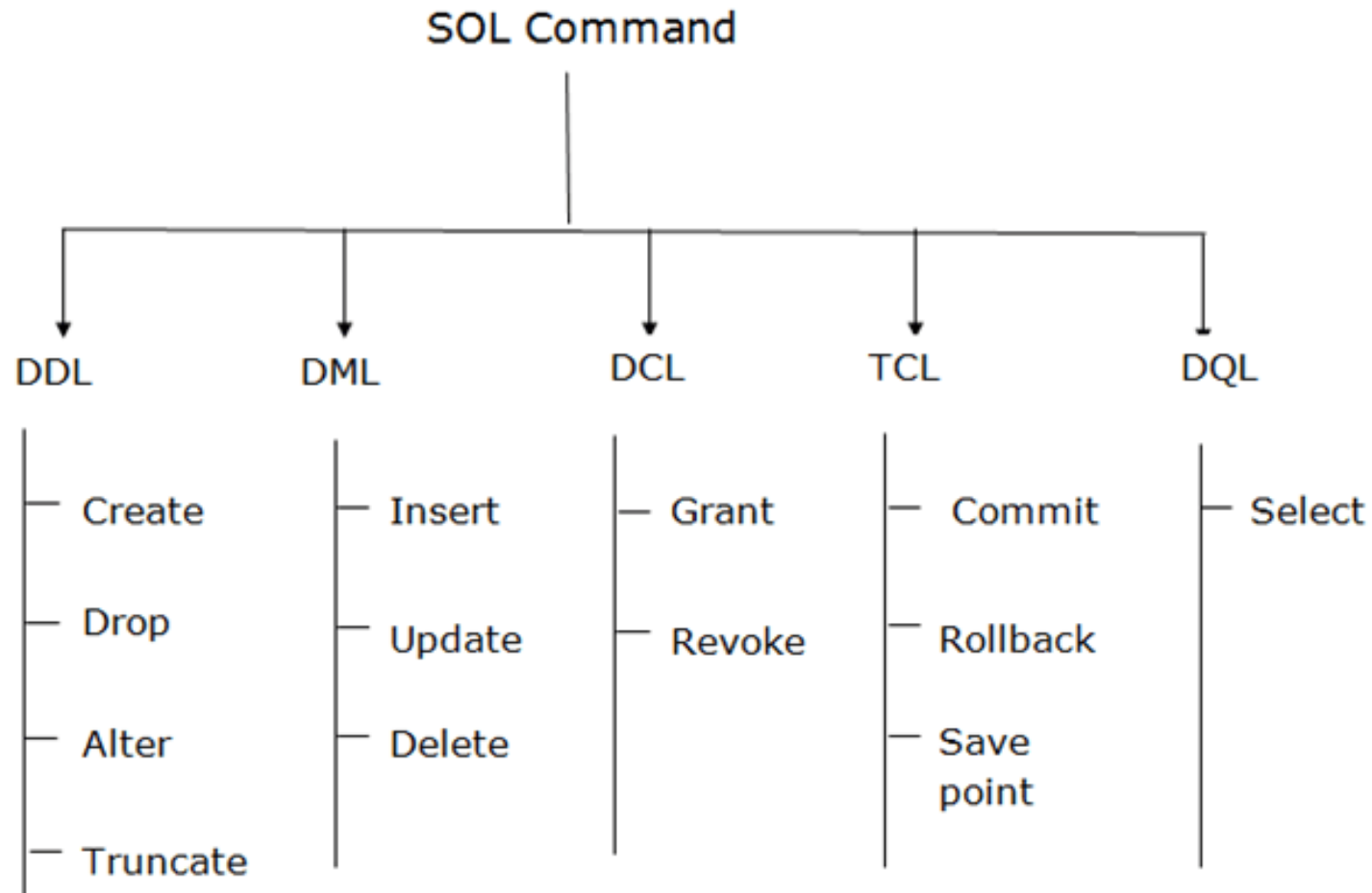
DATABASE

- ✓ A database is an organized collection of structured information, or data, typically stored electronically in a computer system
- ✓ A database is usually controlled by a database management system (DBMS).
- ✓ The data can then be easily accessed, managed, modified, updated, controlled, and organized. ▪ most databases use structured query language (SQL) for writing and querying data.

CONTENT

- ✓ MAIN COMMANDS
- ✓ GENERAL FUNCTIONS
- ✓ CALCULATE FUNCTION
- ✓ STRING FUNCTION
- ✓ DATE FUNCTION
- ✓ LOGICAL FUNCTION
- ✓ RDBMS SYSTEM
- ✓ OIN QUERIES

MY SQL MAIN COMMANDS



CREATE,USE,SHOW,DROP

QUERY:

✓ CREATE DATABASE TABLE;

| | | |
|----|----------|----------------------|
| 11 | 18:56:16 | create database DATA |
|----|----------|----------------------|

✓ USE DATABASE ;



| | | |
|----|----------|----------|
| 12 | 18:57:36 | use DATA |
|----|----------|----------|

✓ SHOW DATABASES;



| | | |
|----|----------|----------------|
| 13 | 18:58:32 | SHOW DATABASES |
|----|----------|----------------|

✓ DROP DATABASE TABLE;



| | | |
|----|----------|--------------------|
| 16 | 19:01:31 | DROP DATABASE DATA |
|----|----------|--------------------|

TABLE INSERT VALUES

QUERY:

```
insert into salary_det values  
(18001, '17001' , '2022-06-10' , 241, 35000),  
(18002, '17002', '2022-06-12', 241, 14000),  
(18003 , '17003', '2022-06-15' , 241 , 28000),  
(18004, '17004', '2022-06-20' , 242 , 18000),  
(18005 , '17005', '2022-06-23' , 241 , 30000),
```



22 19:03:23 insert into salary_det values (18001,'17001','2022-06-10',241,35000), (18002,'17002','2022-...

ALTER- ADD,MODIFY,UPDATE,RENAME,DROP

QUERY:

- ✓ `alter table employee modify varchar(35);`
- ✓ `alter table employee drop gender;`
- ✓ `update employee set age = 32 where employee_id = 17004;`
- ✓ `alter table Employee rename to Emp_info;`
- ✓ `alter table Employee add gender varchar(8);`

TABLE 2

- ▶ create table salary _ det(salary _ id int, emp _ id int, salary _ date branch _ id int, amount int, primary key(salary _ id));
- ▶ select*from salary _ det;

| | salary_id | emp_id | salary_date | branch_id | amount |
|---|-----------|--------|-------------|-----------|--------|
| ▶ | 18001 | 17001 | 2022-06-10 | 241 | 35000 |
| | 18002 | 17002 | 2022-06-12 | 241 | 14000 |
| | 18003 | 17003 | 2022-06-15 | 241 | 28000 |
| | 18004 | 17004 | 2022-06-20 | 242 | 18000 |
| | 18005 | 17005 | 2022-06-23 | 241 | 30000 |
| | 18006 | 17006 | 2022-07-06 | 241 | 23000 |
| | 18007 | 17007 | 2022-07-07 | 243 | 28000 |

TABLE CREATION

```
create table employee (employee _id int ,employee _name  
varchar(20),designation _id int, dep _no int, date _of_ join date,  
primary key (employee _id)); select * from employee;
```

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ► | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |

TABLE 3 & TABLE 4

```
create table salary (Designation_ID int, Designation varchar(30));
```

```
Select*from salary;
```

| | Designation_ID | Designation |
|---|----------------|-------------------|
| ▶ | 3001 | Manager |
| | 3002 | Junior Associates |
| | 3003 | Senior Manager |
| | 3004 | HR |
| | 3005 | General Manager |
| | 3006 | Team Lead |
| | 3007 | Senior HR |

```
create table dep_det (Dep_NO int, Dep_name varchar(35),Branch_ID int, Branch_Name varchar(25));
```

| | Dep_NO | Dep_name | Branch_ID | Branch_Name |
|---|--------|-----------------------|-----------|-------------|
| ▶ | 50 | Production Department | 241 | Annan Nagar |
| | 60 | HR Department | 242 | Velachery |
| | 70 | Sales Department | 243 | Guindy |
| | 80 | Finance Department | 244 | KMC |

MYSQL GENERAL FUNCTIONS

- ▶ Where
- ▶ Or
- ▶ And
- ▶ In
- ▶ Not in
- ▶ >
- ▶ <
- ▶ <=
- ▶ >=
- ▶ !=
- ▶ Count
- ▶ Distinct
- ▶ Count with distinct
- ▶ Order by ascending
- ▶ Order by desc
- ▶ Group by
- ▶ Limit
- ▶ Like(_%)
- ▶ Not like
- ▶ Between

WHERE

► `select*from employee where dep_no=70;`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ► | 17007 | Jaga | 3003 | 70 | 2022-06-06 |
| | 17010 | Kabilan | 3006 | 70 | 2022-06-09 |
| | 17011 | Manasi | 3001 | 70 | 2022-06-10 |
| | 17017 | Swetha | 3002 | 70 | 2022-06-16 |
| | 17018 | Selvi | 3002 | 70 | 2022-06-17 |
| | 17019 | Pooja | 3002 | 70 | 2022-06-18 |
| | 17020 | Lakshmi | 3002 | 70 | 2022-06-19 |

OR

- ▶ `select*from employee where designation_id=3002 or designation_id=3005;`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 |
| | 17012 | Suja | 3002 | 50 | 2022-06-11 |
| | 17015 | Sindhu | 3005 | 80 | 2022-06-14 |
| | 17016 | Madhavi | 3002 | 50 | 2022-06-15 |
| | 17017 | Swetha | 3002 | 70 | 2022-06-16 |

AND

- ▶ `select*from employee where designation_id=3002 and dep_no=50;`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17012 | Suja | 3002 | 50 | 2022-06-11 |
| | 17016 | Madhavi | 3002 | 50 | 2022-06-15 |
| ⌵ | NULL | NULL | NULL | NULL | NULL |

IN

- ▶ `select*from employee where dep _ no in(50,60,80);`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17008 | Pavithra | 3007 | 60 | 2022-06-07 |

NOT IN

- ▶ `select*from employee where dep _ no not in(50,60,80);`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17007 | Jaga | 3003 | 70 | 2022-06-06 |
| | 17010 | Kabilan | 3006 | 70 | 2022-06-09 |
| | 17011 | Manasi | 3001 | 70 | 2022-06-10 |
| | 17017 | Swetha | 3002 | 70 | 2022-06-16 |
| | 17018 | Selvi | 3002 | 70 | 2022-06-17 |
| | 17019 | Pooja | 3002 | 70 | 2022-06-18 |
| | 17020 | Lakshmi | 3002 | 70 | 2022-06-19 |



- ▶ **select*from employee where dep _ no>60;**

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17007 | Jaga | 3003 | 70 | 2022-06-06 |
| | 17010 | Kabilan | 3006 | 70 | 2022-06-09 |
| | 17011 | Manasi | 3001 | 70 | 2022-06-10 |
| | 17015 | Sindhu | 3005 | 80 | 2022-06-14 |
| | 17017 | Swetha | 3002 | 70 | 2022-06-16 |
| | 17018 | Selvi | 3002 | 70 | 2022-06-17 |
| | 17019 | Pooja | 3002 | 70 | 2022-06-18 |



- ▶ **select*from employee where dep _ no<70;**

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 |
| | 17012 | Suja | 3002 | 50 | 2022-06-11 |

>=

- ▶ select*from employee where dep_no>=50;

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 |
| | ... | | | | |

<=

- ▶ select*from employee where dep_no<=80;

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 |

!=

QUERY: Select*from employee where dep _ no!=60;

OUTPUT:

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ► | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 |

COUNT

- ▶ `select count(emp _ id)as
count from salary _ det ;`

| | COUNT |
|---|-------|
| ▶ | 18 |

COUNT WITH DIST

- ▶ `select count(distinct
designation _ id) as unique _
designation _ id _ count from
salary _ det;`

| | unique_designation_id_count |
|---|-----------------------------|
| ▶ | 18 |

ORDER BY ASC

```
select *from department  
order by dep _ name  
ascending;
```

| | Dep_NO | Dep_name | Branch_ID | Branch_Name |
|---|--------|-----------------------|-----------|-------------|
| ▶ | 80 | Finance Department | 244 | KMC |
| | 80 | Finance Department | 244 | KMC |
| | 60 | HR Department | 242 | Velachery |
| | 60 | HR Department | 242 | Velachery |
| | 50 | Production Department | 241 | Anna Nagar |
| | 50 | Production Department | 241 | Anna Nagar |
| | 70 | Sales Department | 243 | Guindy |
| | 70 | Sales Department | 243 | Guindy |

ORDER BY DESC

```
select *from department  
order    by dep _ name desc;
```

| | Dep_NO | Dep_name | Branch_ID | Branch_Name |
|---|--------|-----------------------|-----------|-------------|
| ▶ | 70 | Sales Department | 243 | Guindy |
| | 70 | Sales Department | 243 | Guindy |
| | 50 | Production Department | 241 | Anna Nagar |
| | 50 | Production Department | 241 | Anna Nagar |
| | 60 | HR Department | 242 | Velachery |
| | 60 | HR Department | 242 | Velachery |
| | 80 | Finance Department | 244 | KMC |
| | 80 | Finance Department | 244 | KMC |

GROUP BY

- ▶ `select dep_no, count(emp_id) from salary_det group by dep_no;`

| | dep_no | count(emp_id) |
|---|--------|---------------|
| ▶ | 241 | 8 |
| | 242 | 4 |
| | 243 | 5 |
| | 244 | 1 |

LIMIT

- ▶ `select* from salary_det limit 11,5;`

| | emp_id | designation_id | date_of_join | dep_no | amount |
|---|--------|----------------|--------------|--------|--------|
| ▶ | 18012 | 17012 | 2022-07-12 | 241 | 14000 |
| | 18013 | 17013 | 2022-07-13 | 242 | 28000 |
| | 18014 | 17014 | 2022-07-14 | 242 | 18000 |
| | 18015 | 17015 | 2022-07-15 | 244 | 30000 |
| | 18016 | 17016 | 2022-07-16 | 241 | 14000 |

LIKE

- ▶ `select *from employee where employee_name like 'a%';`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17006 | Amutha | 3006 | 50 | 2022-06-05 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 |
| | 17013 | Arun | 3003 | 60 | 2022-06-12 |
| ⌵ | NULL | NULL | NULL | NULL | NULL |

NOT LIKE

- ▶ `select *from employee where employee_name not like 'v%';`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |

BETWEEN

- ▶ `select*from salary _ det where emp _ id between 18005 and 18014;`

| | emp_id | designation_id | date_of_join | dep_no | amount |
|---|--------|----------------|--------------|--------|--------|
| ▶ | 18005 | 17005 | 2022-06-23 | 241 | 30000 |
| | 18006 | 17006 | 2022-07-06 | 241 | 23000 |
| | 18007 | 17007 | 2022-07-07 | 243 | 28000 |
| | 18008 | 17008 | 2022-07-08 | 242 | 18000 |
| | 18009 | 17009 | 2022-07-09 | 241 | 30000 |
| | 18010 | 17010 | 2022-07-10 | 243 | 23000 |
| | 18011 | 17011 | 2022-07-11 | 243 | 35000 |
| | 18012 | 17012 | 2022-07-12 | 241 | 14000 |
| | | | | ... | |

MYSQL CACULATE FUNCTION

- ▶ SUM
- ▶ AVERAGE
- ▶ MIN
- ▶ MAX
- ▶ COUNT

SUM,AVG

► QUERY: `select sum(dep_no)from salary_det;`
`select avg (dep_no)from salary_det;`

| | sum(dep_no) |
|---|-------------|
| ► | 4355 |

| | avg(dep_no) |
|---|-------------|
| ► | 241.9444 |

MIN,MAX,COUNT

- ✓ QUERY: `select min(dep_no)from salary_det;`
- ✓ `select max(dep_no)from salary_det;`
- ✓ `select count(dep_no)from salary_det;`

- ✓ OUTPUT:

| | avg(dep_no) |
|---|-------------|
| ▶ | 241.9444 |

| | count(dep_no) |
|---|---------------|
| ▶ | 18 |

| | max(dep_no) |
|---|-------------|
| ▶ | 244 |

MYSQL STRING FUNCTIONS

- ✓ LOWER CASE
- ✓ UPPER CASE
- ✓ LEFT
- ✓ RIGHT
- ✓ CONCAT
- ✓ TRIM
- ✓ MID
- ✓ CHAR-LENGTH
- ✓ LENGTH

LCASE \$ UCASE

- ✓ `select*, u case (employee _ name) from employee;`
- ✓ `select*, l case (employee _ name) from employee;`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join | ucase(employee_name) |
|---|-------------|---------------|----------------|--------|--------------|----------------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | GEETHA |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | GURU |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | GOKUL |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | MANI |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | MOORTHY |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | AMUTHA |

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join | lcase(employee_name) |
|---|-------------|---------------|----------------|--------|--------------|----------------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | geetha |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | guru |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | gokul |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | mani |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | moorthy |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | amutha |

LEFT \$ RIGHT

- ✓ `select left(employee_name,5)from employee;`
- ✓ `select right(employee_name,5)from employee;`

- ✓ **OUTPUT:**

| | <code>left(employee_name,5)</code> |
|---|------------------------------------|
| ▶ | Geeth |
| | Guru |
| | Gokul |
| | Mani |
| | Moort |
| | Amuth |
| | Jaga |
| | Pavit |
| | Arthi |

| | <code>right(employee_name,5)</code> |
|---|-------------------------------------|
| ▶ | eetha |
| | Guru |
| | Gokul |
| | Mani |
| | orthy |
| | mutha |
| | Jaga |
| | ithra |
| | Arthi |

CONCAT \$ TRIM

- ✓ select concatenate (employee _ name , " ", dep _ no) from employee;
- ✓ select trim employee _ name from employee;

| | concat(employee_name," ",dep_no) |
|---|----------------------------------|
| ▶ | Geetha 50 |
| | Guru 50 |
| | Gokul 50 |
| | Mani 60 |
| | Moorthy 50 |
| | Amutha 50 |
| | Jaga 70 |
| | Pavithra 60 |

| | trim(employee_name) |
|---|---------------------|
| ▶ | Geetha |
| | Guru |
| | Gokul |
| | Mani |
| | Moorthy |
| | Amutha |
| | Jaga |
| | Pavithra |
| | Arthi |

CHAR_LEN,LENGTH,MID

- ✓ `select char _ length (employee _ name) from employee;`
- ✓ `select length(employee _ name)as count _ length from employee;`
- ✓ `select employee _ name, mid(employee _ name,3,5)as middle _ name from employee;`

✓ OUTPUT:

| | char_length(employee_name) |
|---|----------------------------|
| ▶ | 6 |
| | 4 |
| | 5 |
| | 4 |
| | 7 |
| | 6 |

| | char_length(employee_name) |
|---|----------------------------|
| ▶ | 6 |
| | 4 |
| | 5 |
| | 4 |
| | 7 |
| | 6 |

| employee_name | middle_name |
|---------------|-------------|
| ▶ Geetha | etha |
| Guru | ru |
| Gokul | kul |
| Mani | ni |
| Moorthy | orthy |
| Amutha | utha |

MYSQL DATE FUNCTIONS

- ✓ DATE ADD
- ✓ DATEDIFF
- ✓ TIMESTAMP
- ✓ DATE FORMAT
- ✓ YEAR
- ✓ DAY
- ✓ MONTH
- ✓ NOW

DATEADD, TIMESTAMP, DATEDIFF

- ✓ `select employee _ name, date _add (date _of _join, interval 3 year)as add _ years from employee;`
- ✓ `select employee _ name, date diff (cur date(), date _ of _ join) as employee_exp from employee;`
- ✓ `Select employee _ name ,time stamp diff (month, date _ of _join, cur date())from employee;`

| | employee_name | add_years |
|---|---------------|------------|
| ▶ | Geetha | 2025-05-10 |
| | Guru | 2025-05-12 |
| | Gokul | 2025-05-15 |
| | Mani | 2025-05-20 |
| | Moorthy | 2025-05-23 |
| | Amutha | 2025-06-05 |

| | employee_name | employee_exp |
|---|---------------|--------------|
| ▶ | Geetha | 662 |
| | Guru | 660 |
| | Gokul | 657 |
| | Mani | 652 |
| | Moorthy | 649 |
| | Amutha | 636 |

| | employee_name | timestampdiff(month, |
|---|---------------|----------------------|
| ▶ | Geetha | 21 |
| | Guru | 21 |
| | Gokul | 21 |
| | Mani | 21 |
| | Moorthy | 21 |
| | Amutha | 20 |

DATE FORMAT

| | |
|----|---|
| %a | Abbreviated weekday name (Sun..Sat) |
| %b | Abbreviated month name (Jan..Dec) |
| %c | Month, numeric (0..12) |
| %D | Day of the month with English suffix (0th, 1st) |
| %d | Day of the month, numeric (00..31) |
| %e | Day of the month, numeric (0..31) |
| %f | Microseconds (000000..999999) |
| %H | Hour (00..23) |

DATE FORMAT

| | |
|----|---|
| %h | Hour (01..12) |
| %I | Hour (01..12) |
| %i | Minutes, numeric (00..59) |
| %j | Day of year (001..366) |
| %k | Hour (0..23) |
| %l | Hour (1..12) |
| %M | Month name (January..December) |
| %m | Month, numeric (00..12) |
| %p | AM or PM |
| %r | Time, 12-hour (hh:mm:ss followed by AM or PM) |
| %S | Seconds (00..59) |

DATE FORMAT

| | |
|----|--|
| %T | Time, 24-hour (hh:mm:ss) |
| %U | Week (00..53), where Sunday is the first day of the week; WEEK() mode 0 |
| %u | Week (00..53), where Monday is the first day of the week; WEEK() mode 1 |
| %V | Week (01..53), where Sunday is the first day of the week; WEEK() mode 2; used with %X |
| %v | Week (01..53), where Monday is the first day of the week; WEEK() mode 3; used with %x |
| %W | Weekday name (Sunday..Saturday) |
| %w | Day of the week (0=Sunday..6=Saturday) |
| %X | Year for the week where Sunday is the first day of the week, numeric, four digits; used with %V |
| %x | Year for the week, where Monday is the first day of the week, numeric, four digits; used with %v |
| %Y | Year, numeric, four digits |

DATE FORMAT,MONTH

- ✓ `select date_format (date _of _ join ,'%b')from employee;`
- ✓ `select*from employee where month(date _ of _ join)=05;`
- ✓ **OUTPUT:**

| | <code>date_format(date_of_join,'%b')</code> |
|---|---|
| ▶ | May |
| | May |
| | May |
| | May |
| | May |
| | Jun |
| | Jun |
| | Jun |
| | Jun |

| | <code>employee_ID</code> | <code>employee_Name</code> | <code>designation_id</code> | <code>dep_no</code> | <code>date_of_join</code> |
|---|--------------------------|----------------------------|-----------------------------|---------------------|---------------------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| ⌵ | NULL | NULL | NULL | NULL | NULL |

YEAR, DAY, NOW

- ✓ `select*from employee where month(date _of_ join)=05;`
- ✓ `select*from employee where day(date _of_ join);`
- ✓ `select cur date()as now_ date from employee;`

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join |
|---|-------------|---------------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 |

[illegible]

LOGICAL FUNCTIONS

- ❖ IF
- ❖ IF WITH AND CONDITIONS
- ❖ IF WITH OR CONDITIONS
- ❖ COUNT IF

IF,COUNT IF

- ✓ `select*,if(month (date _ of_ join)>5,'yes','no') as joining _ month from employee;`
- ✓ `Select amount, count(if(amount>=30000,'1','null')) as employee _ count from salary _ det group by amount;`

✓ OUTPUT:

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join | joining_mon |
|---|-------------|---------------|----------------|--------|--------------|-------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | no |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | no |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | no |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | no |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | no |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | yes |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 | yes |
| | 17008 | Pavithra | 3007 | 60 | 2022-06-07 | yes |

Result 2: 16

| | amount | employee_count |
|---|--------|----------------|
| ▶ | 14000 | 5 |
| | 18000 | 3 |
| | 23000 | 2 |
| | 28000 | 3 |
| | 30000 | 3 |
| | 35000 | 2 |

IF WITH AND ,IF WITH OR

```
select amount, if((amount>=30000) and (amount>=35000),'salary credited', 'salary not credited' ) as salary _ det from table2;
```

```
select amount, if((amount>=30000) or (amount>=35000),'salary credited', 'salary not credited' ) as salary_ det from table2;
```

| Result Grid | | Filter Rows: |
|-------------|--------|---------------------|
| | amount | sal_det |
| ▶ | 35000 | salary credited |
| | 14000 | salary not credited |
| | 28000 | salary not credited |

| Result Grid | | Filter Rows: |
|-------------|--------|---------------------|
| | amount | sal_det |
| ▶ | 35000 | salary credited |
| | 14000 | salary not credited |
| | 28000 | salary not credited |
| | 18000 | salary not credited |
| | 30000 | salary credited |

JOIN QUERIES

LEFT JOIN

- ✓ `select*from employee left join salary_ det on employee.
employee _id=salary_ det. emp _id;`

| employee_ID | employee_Name | designation_id | dep_no | date_of_join | emp_id | designation_id | date_of_join | dep_no | amount |
|-------------|---------------|----------------|--------|--------------|--------|----------------|--------------|--------|--------|
| 17001 | Geetha | 3001 | 50 | 2022-05-10 | NULL | NULL | NULL | NULL | NULL |
| 17002 | Guru | 3002 | 50 | 2022-05-12 | NULL | NULL | NULL | NULL | NULL |
| 17003 | Gokul | 3003 | 50 | 2022-05-15 | NULL | NULL | NULL | NULL | NULL |
| 17004 | Mani | 3004 | 60 | 2022-05-20 | NULL | NULL | NULL | NULL | NULL |
| 17005 | Moorthy | 3005 | 50 | 2022-05-23 | NULL | NULL | NULL | NULL | NULL |
| 17006 | Amutha | 3006 | 50 | 2022-06-05 | NULL | NULL | NULL | NULL | NULL |
| 17007 | Jaga | 3003 | 70 | 2022-06-06 | NULL | NULL | NULL | NULL | NULL |
| 17008 | ... | 3007 | ... | 2022-06-07 | NULL | NULL | NULL | NULL | NULL |

JOIN QUERIES

RIGHT JOIN

✓ `select*from employee right join salary _ det on employee.
employee _ id=salary _ det. Emp _ id;`

✓ **OUTPUT:**

| | employee_ID | employee_Name | designation_id | dep_no | date_of_join | emp_id | designation_id | date_of_join | dep_no | amount |
|---|-------------|---------------|----------------|--------|--------------|--------|----------------|--------------|--------|--------|
| ▶ | NULL | NULL | NULL | NULL | NULL | 18001 | 17001 | 2022-06-10 | 241 | 35000 |
| | NULL | NULL | NULL | NULL | NULL | 18002 | 17002 | 2022-06-12 | 241 | 14000 |
| | NULL | NULL | NULL | NULL | NULL | 18003 | 17003 | 2022-06-15 | 241 | 28000 |
| | NULL | NULL | NULL | NULL | NULL | 18004 | 17004 | 2022-06-20 | 242 | 18000 |
| | NULL | NULL | NULL | NULL | NULL | 18005 | 17005 | 2022-06-23 | 241 | 30000 |
| | NULL | NULL | NULL | NULL | NULL | 18006 | 17006 | 2022-07-06 | 241 | 23000 |
| | NULL | NULL | NULL | NULL | NULL | 18007 | 17007 | 2022-07-07 | 243 | 28000 |
| | NULL | NULL | NULL | NULL | NULL | 18008 | 17008 | 2022-07-08 | 242 | 18000 |

Result 7 x

JOIN QUERIES

INNER JOIN

```
select * from table1 inner join table2 on  
table1.emp_id=table2.emp_id;
```

| Result Grid | | | | | | | | | | |
|--------------------------------|--------|----------|----------------|--------|--------------|-----------|--------|-------------|-----------|--------|
| Filter Rows: | | | | | | | | | | |
| Exports: Wrap Cell Contents: | | | | | | | | | | |
| | emp_id | emp_name | designation_id | dep_no | date_of_join | salary_id | emp_id | salary_date | branch_id | amount |
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | 18001 | 17001 | 2022-06-10 | 241 | 35000 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | 18002 | 17002 | 2022-06-12 | 241 | 14000 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | 18003 | 17003 | 2022-06-15 | 241 | 28000 |
| | 17004 | Mari | 3004 | 60 | 2022-05-20 | 18004 | 17004 | 2022-06-20 | 242 | 18000 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | 18005 | 17005 | 2022-06-23 | 241 | 30000 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | 18006 | 17006 | 2022-07-06 | 241 | 23000 |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 | 18007 | 17007 | 2022-07-07 | 243 | 28000 |
| | 17008 | Pavithra | 3007 | 60 | 2022-06-07 | 18008 | 17008 | 2022-07-08 | 242 | 18000 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 | 18009 | 17009 | 2022-07-09 | 241 | 30000 |
| | 17010 | Kabilan | 3006 | 70 | 2022-06-09 | 18010 | 17010 | 2022-07-10 | 243 | 23000 |
| | 17011 | Manasi | 3001 | 70 | 2022-06-10 | 18011 | 17011 | 2022-07-11 | 243 | 35000 |
| | 17012 | Suja | 3002 | 50 | 2022-06-11 | 18012 | 17012 | 2022-07-12 | 241 | 14000 |
| | 17013 | Anu | 3003 | 60 | 2022-06-12 | 18013 | 17013 | 2022-07-13 | 242 | 28000 |

JOIN QUERIES

FULL OUTER JOIN

(select*from employee left join on employee. dep_no=department .dep_no) union(select*from employee right join on employee. dep_no= department. Dep _ no);

| | emp_id | emp_name | designation_id | dep_no | date_of_join | dep_no | dep_name | branch_id | branch_name |
|---|--------|----------|----------------|--------|--------------|--------|-----------------------|-----------|-------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | 50 | Production Department | 241 | Annan Nagar |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | 50 | Production Department | 241 | Annan Nagar |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | 50 | Production Department | 241 | Annan Nagar |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | 50 | Production Department | 241 | Annan Nagar |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | 50 | Production Department | 241 | Annan Nagar |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 | 50 | Production Department | 241 | Annan Nagar |
| | 17012 | Suja | 3002 | 50 | 2022-06-11 | 50 | Production Department | 241 | Annan Nagar |
| | 17016 | Madhavi | 3002 | 50 | 2022-06-15 | 50 | Production Department | 241 | Annan Nagar |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | 60 | HR Department | 242 | Velachery |
| | 17008 | Pavithra | 3007 | 60 | 2022-06-07 | 60 | HR Department | 242 | Velachery |
| | 17013 | Arun | 3003 | 60 | 2022-06-12 | 60 | HR Department | 242 | Velachery |
| | 17014 | Deepa | 3004 | 60 | 2022-06-13 | 60 | HR Department | 242 | Velachery |
| | 17025 | Devan | 3006 | 60 | 2022-06-24 | 60 | HR Department | 242 | Velachery |

CASE END

- ✓ `select*,case when salary _ det. amount<=300000 then 'salary credited' else 'salary not credited' end as salary _ inf from salary _ det;`

| | emp_id | designation_id | date_of_join | dep_no | amount | sal_inf |
|---|--------|----------------|--------------|--------|--------|-----------------|
| ▶ | 18001 | 17001 | 2022-06-10 | 241 | 35000 | salary credited |
| | 18002 | 17002 | 2022-06-12 | 241 | 14000 | salary credited |
| | 18003 | 17003 | 2022-06-15 | 241 | 28000 | salary credited |
| | 18004 | 17004 | 2022-06-20 | 242 | 18000 | salary credited |
| | 18005 | 17005 | 2022-06-23 | 241 | 30000 | salary credited |
| | 18006 | 17006 | 2022-07-06 | 241 | 23000 | salary credited |
| | 18007 | 17007 | 2022-07-07 | 243 | 28000 | salary credited |
| | 18008 | 17008 | 2022-07-08 | 242 | 18000 | salary credited |

CASE WITH AND STATEMENT

QUERY:

```
select*,case when salary _ det .amount>=35000 and  
(employee .dep_no)=50 then 'bonus credited' Else "not  
credited" end as bonus _ details from employee inner join  
salary det on employee. employee_id=bonus_ details.  
Emp _ id;
```

| Result Grid Filter Rows: Export: Wrap Cell Content: | | | | | | | | | | | |
|---|--------|----------|----------------|--------|--------------|-----------|--------|-------------|-----------|--------|----------------|
| | emp_id | emp_name | designation_id | dep_no | date_of_join | salary_id | emp_id | salary_date | branch_id | amount | bonus_details |
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | 18001 | 17001 | 2022-06-10 | 241 | 35000 | Bonus credited |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | 18002 | 17002 | 2022-06-12 | 241 | 14000 | Not credited |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | 18003 | 17003 | 2022-06-15 | 241 | 28000 | Not credited |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | 18004 | 17004 | 2022-06-20 | 242 | 18000 | Not credited |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | 18005 | 17005 | 2022-06-23 | 241 | 30000 | Bonus credited |

CASE WITH OR STATEMENT

QUERY:

```
select*,case when salary _ det .amount>=35000 or (employee
.dep_no)=50 then 'bonus credited' Else "not credited" end as
bonus _details from employee inner join salary _ det on employee.
employee_id=bonus_ det. Emp _ id;
```


| emp_id | emp_name | designation_id | dep_no | date_of_join | salary_id | emp_id | salary_date | branch_id | amount | bonus_details |
|--------|----------|----------------|--------|--------------|-----------|--------|-------------|-----------|--------|----------------|
| 17001 | Geetha | 3001 | 50 | 2022-05-10 | 18001 | 17001 | 2022-06-10 | 241 | 35000 | Bonus credited |
| 17002 | Guru | 3002 | 50 | 2022-05-12 | 18002 | 17002 | 2022-06-12 | 241 | 14000 | Bonus credited |
| 17003 | Gokul | 3003 | 50 | 2022-05-15 | 18003 | 17003 | 2022-06-15 | 241 | 28000 | Bonus credited |
| 17004 | Mani | 3004 | 60 | 2022-05-20 | 18004 | 17004 | 2022-06-20 | 242 | 18000 | Bonus credited |
| 17005 | Moorthy | 3005 | 50 | 2022-05-23 | 18005 | 17005 | 2022-06-23 | 241 | 30000 | Bonus credited |
| 17006 | Amutha | 3006 | 50 | 2022-06-05 | 18006 | 17006 | 2022-07-06 | 241 | 23000 | Bonus credited |
| 17007 | Jaga | 3003 | 70 | 2022-06-06 | 18007 | 17007 | 2022-07-07 | 243 | 28000 | Bonus credited |
| 17008 | Pavithra | 3007 | 60 | 2022-06-07 | 18008 | 17008 | 2022-07-08 | 242 | 18000 | Bonus credited |
| 17009 | Arthi | 3005 | 50 | 2022-06-08 | 18009 | 17009 | 2022-07-09 | 241 | 30000 | Bonus credited |
| 17010 | Kabilan | 3006 | 70 | 2022-06-09 | 18010 | 17010 | 2022-07-10 | 243 | 23000 | Bonus credited |


HAVING

QUERY:

- ▶ `Select*,round(date diff (cur date ()date _ of _ join)/365,0)as emp _ exp from employee having emp exp;`


Result Grid





Filter Rows:

Export:



Wrap Cell Co

| | emp_id | emp_name | designation_id | dep_no | date_of_join | emp_exp |
|---|--------|----------|----------------|--------|--------------|---------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 | 2 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 | 2 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 | 2 |
| | 17004 | Mani | 3004 | 60 | 2022-05-20 | 2 |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 | 2 |
| | 17006 | Amutha | 3006 | 50 | 2022-06-05 | 2 |
| | 17007 | Jaga | 3003 | 70 | 2022-06-06 | 2 |
| | 17008 | Pavithra | 3007 | 60 | 2022-06-07 | 2 |
| | 17009 | Arthi | 3005 | 50 | 2022-06-08 | 2 |
| | 17010 | Kabilan | 3006 | 70 | 2022-06-09 | 2 |

DECLARING VARIABLES IN PROCEDURES

```
Create procedure store _ data 102()
```

```
Begin
```

```
Declare n int;
```

```
Set n=1;
```

```
Select n;
```

```
End//
```

```
Delimiter ;
```

```
Call store_data102;
```



A screenshot of a 'Result Grid' window. The window has a title bar that says 'Result Grid'. Below the title bar is a table with one column and one row. The column header is 'n' and the row value is '1'. There is a small icon in the bottom left corner of the table area.

| n |
|---|
| 1 |

DECLARING AND STORING VARIABLES IN PROCEDURE

Delimiter //

Create procedure store _ data103()

Begin

Declare emp _ count int;

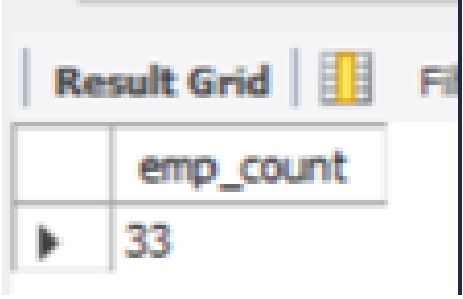
Select count(emp _ id) into emp _ count from employee;

Select emp _ count;

end //

Delimiter ;

Call store _ data103();



A screenshot of a database application's 'Result Grid' window. The window has a title bar with 'Result Grid' and a yellow icon. It contains a table with one column named 'emp_count' and one row with the value '33'. A small black arrow icon is visible in the first cell of the row.

| | emp_count |
|---|-----------|
| ▶ | 33 |

TRIGGERS

- ✓ BEFORE INSERT
- ✓ AFTER INSERT
- ✓ BEFORE UPDATE
- ✓ AFTER UPDATE
- ✓ BEFORE DELETE
- ✓ AFTER DELETE

BEFORE INSERT

```
create table employee(emp _id int, employee _name varchar(30),  
Designation _int, dep _no int, date _of_ join date, primary  
    key(emp _id));  
delimiter //  
create trigger name_ check before insert  
on employee for each row  
begin  
if new. Emp _ name is null  
then set new. emp _ name='kindly update your name';  
end if;  
end //  
delimiter ;
```

AFTER INSERT

QUERY:

```
create table employee _det(emp_ id int, emp_ name  
varchar(30),designation_ id int, dep_ no int, date_ of_ join date, primary  
key(emp _ id));
```

```
create table msg_info1 (comment _ id int, comment_ msg  
varchar(50),primary key(comment _ id));
```

```
delimiter //
```

```
create trigger detail_ check after insert
```

```
on employee_ det for each row
```

```
begin
```

```
if new. date _ of_ join is null
```

```
then insert into msg _ info(comment _ id, comment_ msg) values (new. emp_  
id, concatenate('hi', new. emp_ name, 'kindly update your date of join'));
```

OUTPUT

| Result Grid | | | | | |
|-------------|--------|----------|----------------|--------|--------------|
| | emp_id | emp_name | designation_id | dep_no | date_of_join |
| ▶ | 17001 | harini | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | NULL |
| | 17003 | priya | 3003 | 50 | 2022-05-15 |
| | 17004 | Mani | 3004 | 60 | NULL |
| | 17005 | Moorthy | 3005 | 50 | 2022-05-23 |
| • | NULL | NULL | NULL | NULL | NULL |

| Result Grid | | |
|-------------|------------|---------------------------------------|
| | comment_id | comment_msg |
| ▶ | 17002 | hiGurukindly update your date of join |
| | 17004 | hiManikindly update your date of join |
| | NULL | NULL |

BEFORE UPDATE

```
create table salary_ info(salary _id
    int, emp_ id int, salary_ date ,
    branch_ id int, amount int,
    primary key(emp_ id));

insert into salary_ info values
(18001,17001,'2022-10',241,35000),
(18002,17002,'2022-12',241,14000);

delimiter //

create trigger update_ salary before
    update on salary _info for each
    row begin

if new. amount>=40000 then

set new. amount='high _salary';

elseif new. amount>=35000 then

set new. amount='Good _salary';
```

```
elseif new. amount>=15000 then
set new. amount='average_ salary';
elseif new. amount>=0

then set new. amount='Low_
salary';



end if;

end //

delimiter ;

select * from salary _info; alter
table salary_ info modify amount
varchar(40); update salary _info set
amount=25000 where emp_
id=17002; select * from salary_
info;
```

OUTPUT

| Result Grid | | | | | |
|---|-----------|--------|-------------|-----------|----------------|
| Filter Rows: <input type="text"/> | | | | | |
| Edit:   | | | | | |
| | salary_id | emp_id | salary_date | branch_id | amount |
| ▶ | 18001 | 17001 | 2022-06-10 | 241 | 35000 |
| | 18002 | 17002 | 2022-06-12 | 241 | average_salary |
| | 18003 | 17003 | 2022-06-15 | 241 | 28000 |

BEFORE DELETE

```
create table emp_ info (emp id int,  
emp_ name varchar(30),designation_  
id int, dep_ no int ,date_ of_ join date,  
primary key(emp _id));
```

```
insert into emp _info values
```

```
(17001,'Geetha',3001,50,'2022-5-10'),
```

```
(17002,'Guru',3002,50,'2022-5-12'),
```

```
create table emp _ info _backup (emp_  
id int, emp _name  
varchar(30),designation _id int, dep_  
no int, date _ of _ join date, primary  
key(emp _id));
```

```
delimiter //
```

```
create trigger backup_update1 before  
delete on emp _info for each row
```

```
begin
```

```
insert into emp_ info_ backup  
values(old.emp_id,old.emp_name,old  
.designation_id,old.dep_no,old.date_  
of_join);
```

```
end //
```





```
delimiter ;
```

```
select * from emp _info;
```





```
select * from emp_ info_ backup;
```

```
delete from emp_ info where emp  
_id=17001;
```

OUTPUT

Result Grid |   Filter Rows: | Edit:  

| | emp_id | emp_name | designation_id | dep_no | date_of_join |
|---|--------|----------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| | 17002 | Guru | 3002 | 50 | 2022-05-12 |
| | 17003 | Gokul | 3003 | 50 | 2022-05-15 |
| • | NULL | NULL | NULL | NULL | NULL |

Result Grid |   Filter Rows: | Edit:  

| | emp_id | emp_name | designation_id | dep_no | date_of_join |
|---|--------|----------|----------------|--------|--------------|
| ▶ | 17001 | Geetha | 3001 | 50 | 2022-05-10 |
| • | NULL | NULL | NULL | NULL | NULL |

THANK YOU