MYSQL PRESENTATION

BY VAISHNAVI

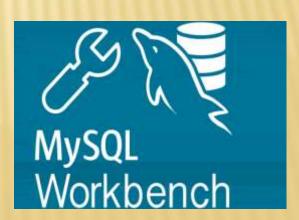
MY SQL DATABASE

- SQL = Structured Query Language Program
- SQL Programming language used to manage and manipulate relational databases.
- Data is organized into tables with rows and columns.
- It provides efficient storage and retrieval of structured data.
- It as commonly used in various applications and systems.

MY SQL WORKBENCH

- My SQL Workbench is a visual tool for database developers
- It provides data modeling, SQL development, and comprehensive tools for server configuration, user administration, backup.

My SQL WORKBENCH 8.0 CE.....



SQL SERVERS

- Microsoft SQL Server
- My SQL Server Workbench
- Navigation
- Oracle Database
- IBM Db2



Difference Between SQL & MYSQL

SQL	MYSQL
It as a Structured Query Language	SQL is based on ANSI SQL Standar
Not a specific database system, but a language standard	A specific relational database management systems (RDBMS)
Widely used in various database systems and platforms	One of the most popular open- source RDBMS, especially for web applications.
Used for database management	
across different platforms and systems.	➤ Primarily used as the backend
	database for web applications,
	especially those using PHP

DATATYPE OF MYSQL

- String Data type
- Timestamp Data type
- Date Time Data type
- Integers Data type
- Numeric Data type

KEYS IN DBMS

- Super Key
- Candidate Key
- Primary Key
- Alternate Key
- Secondary Key
- Foreign Key

PRIMARY KEY

- A table / relation can have only one primary key allowed
- No Null Values
- No Duplicate Values
- Ex: emp_id.

SUPER KEY

- Set of one or more attributes that allows identifying an entity uniq
- (Ex: student_id, student_name, roll_no, mail_id,)
- Duplicate can allow

CANDIDATE KEY

- Candidate keys are a subset of super key
- No repeated attributes
- (Ex: student_id, roll_no)

ALTERNATE KEY OR SECONDARY KEY

Primary Key – Candidate Key

FOREIGN KEY

- A Foreign Key is a reference key.
- It used to linked two tables together.
- It maintain relationship between two tables.

CONTENTS

- MY SQL General Commands
- MY SQL General Function
- MY SQL String Functions
- MY SQL Date Functions
- MY SQL Calculate Functions
- MY SQL Logical Functions
- MY SQL Joins
- MY Stored Procedure
- MYSQL Triggers

MYSQL General Commands

- > SELECT extracts data from a database
- > UPDATE updates data in a database
- > DELETE deletes data from a database
- > INSERT INTO inserts new data into a database
- > CREATE DATABASE creates a new database
- > ALTER DATABASE modifies a database
- > CREATE TABALE creates a new table
- > ALTER DATABASE modifies a database
- > DROP TABLE deletes a table

MYSQL GENERAL COMMANDS

- DDL DATA DEFINITION LANGUAGE
- DML DATA MANIPULATION LANGUAGE
- DQL DATA QUERY LANGUAGE
- DCL DATA CONTROL LANGUAGE
- TCL TRANSACTION CONTROL LANGUAGE

DDL	DML	DQL	DCL	TCL
CreateAlterDropTruncateRename	SelectInsertUpdateDeleteMerge	SelectFrom	GrandRevoke	CommitRollbackSavepoint

TABLE CREATIONS TABLE 1

 create table emp_det (emp_id int, emp_name varchar(45), designation_id int, dep_no int, date_of_birth date,primary key(emp_id));

emp_id	emp_name	designation_id	dep_no	date_of_birth			
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			
17008	Pavithra	3007	60	2022-06-07			

TABLE 2

QUERY: create table salary_det(sal_id int, emp_id int, salary_date date, branch_id int, amount int, primary key(sal_id));

Output:

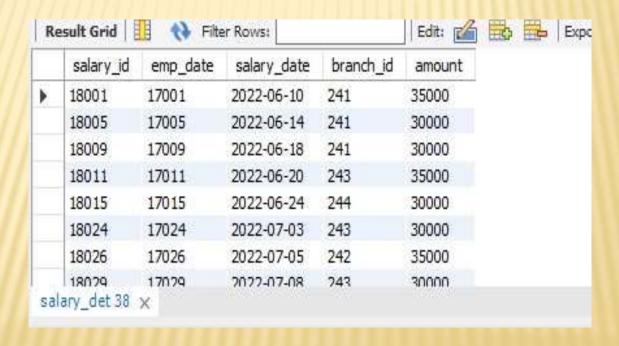


TABLE 3

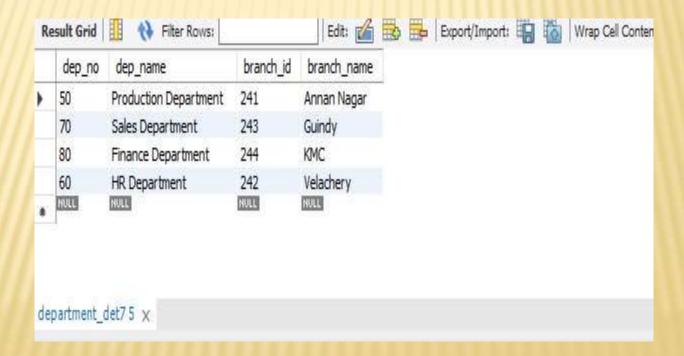
- QUERY: create table designation_det(des_id int, des varchar(30));
- Output:



TABLE 4

➤ QUERY: create table department_det7(dep_no int,dep_name varchar(45),branch_id int, branch_name varchar(30));

Output:



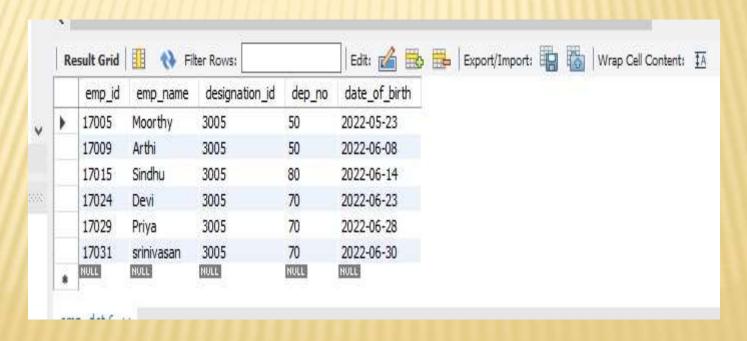
MYSQL GENERAL FUNCTION

- > where
- > or
- > and
- > in
- > not in
- > > > >
- > >=
- > <=
- > <> (not in)

- > count
- Distinct
- count with discount
- order by Asc
- order by Desc
- > Group by
- > Limit
- Desc Limit
- > Like (_%)
- > not like
- between

WHERE

- The WHERE Clause is used to filter records.
- It is used to extract only those records that fulfil a specified condition.
- QUERY: select*from emp_det where designation_id=3005;
- Output:



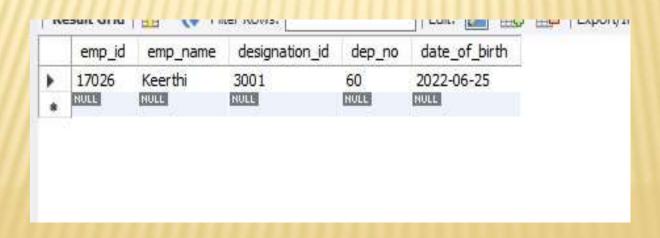
OR

- The OR operator displays a record if any of the conditions separated by OR is TRUE
- QUERY: select* from emp_det where dep_no=50 or dep_no=80;
- Output:

	emp_id	emp_name	designation_id	dep_no	date_of_birth
•	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
	17015	Sindhu	3005	80	2022-06-14

AND

- The AND operator displays a record if all the conditions seprated by AND are TRUE
- QUERY: select*from emp_det where designation_id=3001 and dep_no=60;



IN

- The IN operator allows you to specify multiple values in a WHERE clause.
- QUERY: select *from emp_det where dep_no in (50,60);

emp_id	emp_name	designation_id	dep_no	date_of_birth	
17009	Arthi	3005	50	2022-06-08	
17012	Suja	3002	50	2022-06-11	
17013	Arun	3003	60	2022-06-12	
17014	Deepa	3004	60	2022-06-13	
17016	Madhavi	3002	50	2022-06-15	
17025	Devan	3006	60	2022-06-24	
17026	Keerthi	3001	60	2022-06-25	
17028	Raja	3004	60	2022-06-27	

NOT IN

The NOT IN operators does not allows you to specify multiple values in a WHERE clause

- QUERY: select* from salary_det where branch_id not in (241,244);
- OUTPUT

salary_id	emp_date	salary_date	branch_id	amount	
18004	17004	2022-06-13	242	18000	
18007	17007	2022-06-16	243	28000	
18008	17008	2022-06-17	242	18000	
18010	17010	2022-06-19	243	23000	
18011	17011	2022-06-20	243	35000	
18013	17013	2022-06-22	242	28000	
18014	17014	2022-06-23	242	18000	
18017	17017	2022-06-26	243	14000	

GREATER THAN

- The GREATHER THAN operator is used to show the higher values
- QUERY: select*from salary_det where amount >25000;

	salary_id	emp_date	salary_date	branch_id	amount				
	18001	17001	2022-06-10	241	35000				
	18003	17003	2022-06-12	241	28000				
	18005	17005	2022-06-14	241	30000				
	18007	17007	2022-06-16	243	28000				
	18009	17009	2022-06-18	241	30000				
	18011	17011	2022-06-20	243	35000				
	18013	17013	2022-06-22	242	28000				
1	18015	17015	2022-06-24	744	30000				

LESSER THAN

The LESSER THAN operator is used to show the lower values.

QUERY: Select*from salary_det where amount <25000;</p>

salary_id	emp_date	salary_date	branch_id	amount		
18002	17002	2022-06-11	241	14000		
18004	17004	2022-06-13	242	18000		
18006	17006	2022-06-15	241	23000		
18008	17008	2022-06-17	242	18000		
18010	17010	2022-06-19	243	23000		
18012	17012	2022-06-21	241	14000		
18014	17014	2022-06-23	242	18000		
18016	17016	2022-06-25	241	14000		

GREATER EQUAL

- The GREATER EQUAL is used to show the higher value and also the equal to values
- QUERY: select*from salary_det where amount >= 25000;

	salary_id	emp_date	salary_date	branch_id	amount
•	18001	17001	2022-06-10	241	35000
	18003	17003	2022-06-12	241	28000
	18005	17005	2022-06-14	241	30000
	18007	17007	2022-06-16	243	28000
	18009	17009	2022-06-18	241	30000
	18011	17011	2022-06-20	243	35000
	18013	17013	2022-06-22	242	28000
	18015	17015	2022-06-24	744	30000

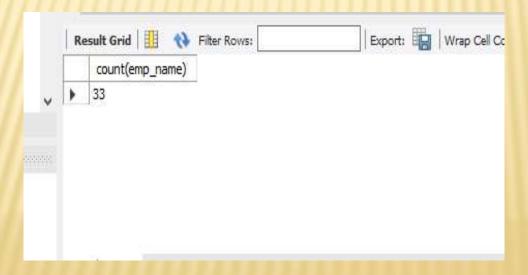
LESSER EQUAL

QUERY: select*from salary_det where amount <=25000;

salary_id	emp_date	salary_date	branch_id	amount				
18002	17002	2022-06-11	241	14000				
18004	17004	2022-06-13	242	18000				
18006	17006	2022-06-15	241	23000				
18008	17008	2022-06-17	242	18000				
18010	17010	2022-06-19	243	23000				
18012	17012	2022-06-21	241	14000				
18014	17014	2022-06-23	242	18000				
18016	17016	2022-06-25	241	14000				

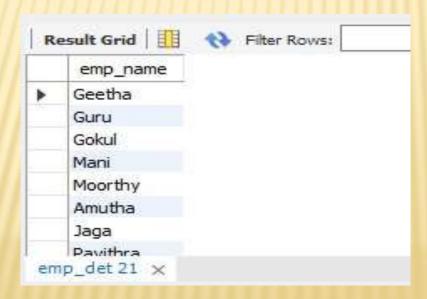
COUNT

- The COUNT() functions returns the number of rows that matches a specified criterion
- QUERY: select count(emp_name) from emp_det;
- OUTPUT



DISTINCT

- To SELECT DISTINCT statement is used to return only DISTINCT (different) values
- QUERY: select distinct emp_name from emp_det;
- OUTPUT



COUNT WITH DISTINCT

- This is used to find the count values of DISTINCT values
- Query: select count(distinct dep_name) from department_det7;
- OUTPUT



ORDER BY ASCENDING

- Select * from salary_details where amount between 10000 and 20000
- QUERY: select* from salary_det order by amount asc;
- OUTPUT

	2022-06-30	244	14000	
022	2022-07-01	244		
		244	14000	
023	2022-07-02	244	14000	
004	2022-06-13	242	18000	
800	2022-06-17	242	18000	
014	2022-06-23	242	18000	
028	2022-07-07	242	18000	
	004 008 014	2022-06-13 2022-06-17 2014 2022-06-23 2028 2022-07-07	004 2022-06-13 242 008 2022-06-17 242 014 2022-06-23 242 028 2022-07-07 242	004 2022-06-13 242 18000 008 2022-06-17 242 18000 014 2022-06-23 242 18000 028 2022-07-07 242 18000

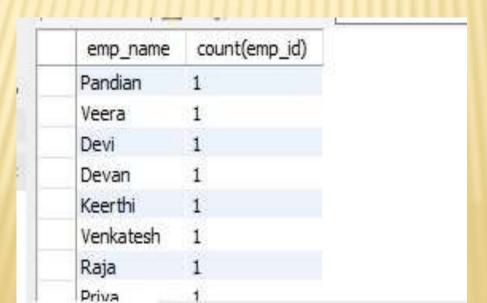
ORDER BY DESCENDING

• QUERY: select* from salary_det order by amount desc;

	The same and a same	T. STORMAN ST. ST. ST. ST. ST.	Laboration Programme	Augustana manana a		
	salary_id	emp_date	salary_date	branch_id	amount	
•	18001	17001	2022-06-10	241	35000	
	18011	17011	2022-06-20	243	35000	
	18026	17026	2022-07-05	242	35000	
	18033	17033	2022-07-12	244	35000	
	18005	17005	2022-06-14	241	30000	
	18009	17009	2022-06-18	241	30000	
	18015	17015	2022-06-24	244	30000	
	18024	17024	2022-07-03	243	30000	

GROUP BY

- The GROUP BY statement groups rows that have the same values into summary rows, like "find the number of customers in each country".
- The GROUP BY statement is often used with aggregate functions (Count(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- QUERY: select emp_name,count(emp_id)from emp_det group by emp_name;



LIMIT

- The LIMIT is used to filter the specified range of values.
- QUERY: select*from emp_det order by emp_id limit 20,5;

	emp_id	emp_name	designation_id	dep_no	date_of_birth	
•	17021	Veeramani	3002	80	2022-06-20	
	17022	Pandian	3002	80	2022-06-21	
	17023	Veera	3002	80	2022-06-22	
	17024	Devi	3005	70	2022-06-23	
	17025	Devan	3006	60	2022-06-24	
	NULL	NULL	NULL	NULL	NULL	

DESC LIMIT

QUERY: select*from emp_det order by emp_id desc limit 20,5;

	emp_id	emp_name	designation_id	dep_no	date_of_birth
•	17013	Arun	3003	60	2022-06-12
	17012	Suja	3002	50	2022-06-11
	17011	Manasi	3001	70	2022-06-10
	17010	Kabilan	3006	70	2022-06-09
	17009	Arthi	3005	50	2022-06-08
	NULL	NULL	HULL	NULL	NULL

LIKE

- The LIKE operator is used in a WHERE clause to search for a specific pattern in a column.
- > The percent sign % represents zero, one, or multiple character.
- ➤ The underscore sign_represents one, single character.
- QUERY: select*from emp_det where emp_name like'%n';
- OUTPUT

	Result Grid		## Filter Rows:		Edit: 🚄 🖶		Export/Import:	-	0	
		emp_id	emp_name	designation_id	dep_no	date_of_birth				
v		17010	Kabilan	3006	70	2022-06-09				
		17013	Arun	3003	60	2022-06-12				
		17022	Pandian	3002	80	2022-06-21				
O.		17025	Devan	3006	60	2022-06-24				
		17031	srinivasan	3005	70	2022-06-30				
		17032	ganesan	3006	80	2022-07-01				
		17033	Praveen	3001	80	2022-07-02				
		NULL	NULL	NULL	NULL	NULL				

NOT LIKE

QUERY: select*from emp_det where emp_name not like'%n';

OUTPUT

emp_id	emp_name	designation_id	dep_no	date_of_birth		
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		
17008	Pavithra	3007	60	2022-06-07		

BETWEEN AND

- The BETWEEN operator select values within a given range. The values can be numbers, te
- QUERY: select* from salary_det where amount between 30000 and 40000;
- OUTPUT

	salary_id	emp_date	salary_date	branch_id	amount	
Þ	18001	17001	2022-06-10	241	35000	
	18005	17005	2022-06-14	241	30000	
	18009	17009	2022-06-18	241	30000	
	18011	17011	2022-06-20	243	35000	
	18015	17015	2022-06-24	244	30000	
	18024	17024	2022-07-03	243	30000	
	18026	17026	2022-07-05	242	35000	
	18029	17079	2022-07-08	243	30000	

MYSQL STRING FUNCTION

- LCase
- UCase
- > Left
- > Right
- Concat
- > Trim
- Char_Length

LOWER CASE

• QUERY: select*,lcase(emp_name)from emp_det;

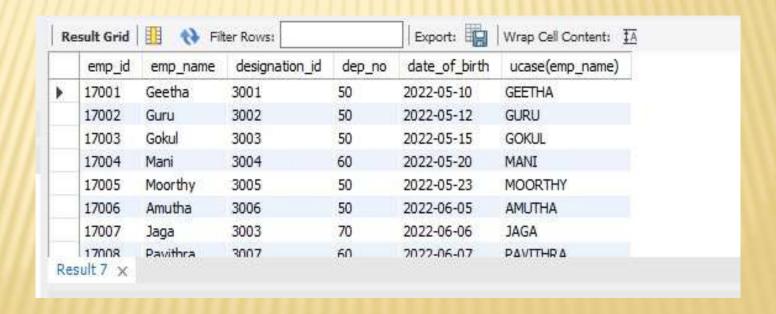
Output



UPPER CASE

• QUERY: select*,ucase(emp_name)from emp_det;

Output



TRIM

• QUERY: select *,if (trim(emp_id) ='p','1','0') as present_count from emp_det;

Output

R	esult Grid	Ⅲ ♦ FI	ter Rows:		Export:	Wrap Cell Content:	IA
	emp_id	emp_name	designation_id	dep_no	date_of_birth	present_count	
	17001	Geetha	3001	50	2022-05-10	0	
	17002	Guru	3002	50	2022-05-12	0	
	17003	Gokul	3003	50	2022-05-15	0	
	17004	Mani	3004	60	2022-05-20	0	
	17005	Moorthy	3005	50	2022-05-23	0	
	17006	Amutha	3006	50	2022-06-05	0	
	17007	Jaga	3003	70	2022-06-06	0	
	17008 sult 9 X	Pavithra	3007	60	2022-06-07	n	

MYSQL CALCULATE FUNCTION

- > Sum
- Average
- > Min
- Max
- > Count

SUM

- > The SUM() function returns the total sum of a numeric colimn.
- QUERY: select sum(amount)as total_sal_amount from salary_det;
- Output:



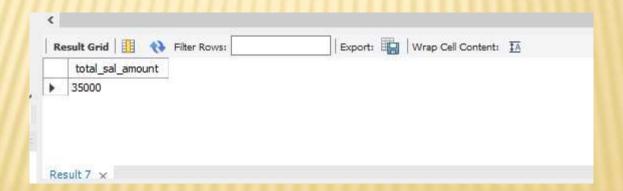
AVERAGE

- > The AVERAGE function returns the average value off a numeric column.
- QUERY: select avg(amount)as total_sal_amount from salary_det;
- Output:



MAX

- > The MAX function returns the largest value of the selected column.
- QUERY: select max(amount)as total_sal_amount from salary_det;
- Output:



MIN

- > The MIN function return the smallest value of the selected column.
- QUERY: select min(amount)as total_sal_amount from salary_det;
- Output:



COUNT

- > The COUNT function returns the number of rows that matches a specified criterion
- QUERY: select count(emp_id) from emp_det;
- Output:



YEAR, MONTH, DATE

> YEAR

• QUERY: select*,timestampdiff(year,date_of_birth,curdate())as date_of_birth from emp_det;

Output:

	emp_id	emp_name	designation_id	dep_no	date_of_birth	date_of_birth
•	17001	Geetha	3001	50	2022-05-10	1
	17002	Guru	3002	50	2022-05-12	1
	17003	Gokul	3003	50	2022-05-15	1
	17004	Mani	3004	60	2022-05-20	1
	17005	Moorthy	3005	50	2022-05-23	1
	17006	Amutha	3006	50	2022-06-05	1
	17007	Jaga	3003	70	2022-06-06	1
	17008 sult 33 ×	Pavithra	3007	60	2022-06-07	1

MONTH

QUERY: select*,timestampdiff(month,date_of_birth,curdate())as date_of_birth from emp_det;

> Output:

emp_i	d emp_name	designation_id	dep_no	date_of_birth	date_of_birth
17001	Geetha	3001	50	2022-05-10	22
17002	Guru	3002	50	2022-05-12	22
17003	Gokul	3003	50	2022-05-15	22
17004	Mani	3004	60	2022-05-20	21
17005	Moorthy	3005	50	2022-05-23	21
17006	Amutha	3006	50	2022-06-05	21
17007	Jaga	3003	70	2022-06-06	21
17008	Pavithra	3007	60	2022-06-07	71
Result 32	×				

DAY

> QUERY: select*,timestampdiff(day,date_of_birth,curdate())as date_of_birth from emp_det;

> Output:

	17.	The same of the sa	The state of the s	1111111		1	
	emp_id	emp_name	designation_id	dep_no	date_of_birth	date_of_birth	
	17001	Geetha	3001	50	2022-05-10	677	
	17002	Guru	3002	50	2022-05-12	675	
	17003	Gokul	3003	50	2022-05-15	672	
	17004	Mani	3004	60	2022-05-20	667	
	17005	Moorthy	3005	50	2022-05-23	664	
	17006	Amutha	3006	50	2022-06-05	651	
	17007	Jaga	3003	70	2022-06-06	650	
Re	17008 sult 35 ×	Pavithra	3007	60	2022-06-07	649	

MY SQL LOGICAL FUNCTION

- > If
- > Count If
- If With And Conditions
- > If With Or Conditions

IF CONDITIONS

QUERY: select*,if(dep_no<=60,'senior','jounior')as categroy from emp_det;</p>

Output:

emp_id	emp_name	designation_id	dep_no	date_of_birth	categroy	
7006	Amutha	3006	50	2022-06-05	senior	
7007	Jaga	3003	70	2022-06-06	jounior	
7008	Pavithra	3007	60	2022-06-07	senior	
7009	Arthi	3005	50	2022-06-08	senior	
7010	Kabilan	3006	70	2022-06-09	jounior	

IF WITH AND CONDITIONS

QUERY: select*,if(dep_no<=60,'senior','jounior' and emp_id<=17010)as categroy from emp_det;</p>

Output:

1,000	:4		3	1922-22	المال المال	10000000	
emp	_ia er	np_name	designation_id	dep_no	date_of_birth	categroy	
1701	6 Ma	dhavi	3002	50	2022-06-15	senior	
1701	7 Sw	etha	3002	70	2022-06-16	0	
1701	8 Sel	Vİ	3002	70	2022-06-17	0	
1701	9 Po	oja	3002	70	2022-06-18	0	
1702	0 Lak	cshmi	3002	70	2022-06-19	0	

MYSQL JOINS FUNCTIONS

- A JOIN clause is used to combine rows from two or more tables, based on a related column between them.
- > Types of Joins are:

INNER JOIN

LEFT JOIN

RIGHT JOIN

CROSS JOIN

INNER JOIN

QUERY: select *from emp_det inner join department_det7 on emp_det.dep_no=department_det7.dep_no;

> Output:

emp	id emp_name	designation_id	dep_no	date_of_birth	dep_no	dep_name	branch_id	branch_name
1700	Geetha	3001	50	2022-05-10	50	Production Department	241	Annan Nagar
1700	Guru	3002	50	2022-05-12	50	Production Department	241	Annan Nagar
1700	Gokul	3003	50	2022-05-15	50	Production Department	241	Annan Nagar
1700	Mani	3004	60	2022-05-20	60	HR Department	242	Velachery
1700	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
1700	Jaga	3003	70	2022-06-06	70	Sales Department	243	Guindy
17008	Pavithra	3007	60	2022-06-07	60	HR Denartment	242	Velachery

LEFT JOIN

QUERY: select *from emp_det left join department_det7 on emp_det.dep_no=department_det7.dep_no;

Output:

	emp_id	emp_name	designation_id	dep_no	date_of_birth	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
	17004	Mani	3004	60	2022-05-20	60	HR Department	242	Velachery
	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
	17007	Jaga	3003	70	2022-06-06	70	Sales Department	243	Guindy
	17008 ult 27 ×	Pavithra	3007	60	2022-06-07	60	HR Denartment	747	Velachery

RIGHT JOIN

QUERY: select *from department_det7 right join emp_det on department_det7.dep_no =emp_det.dep_no;

Output:

18	dep_no	dep_name	branch_id	branch_name	emp_id	emp_name	designation_id	dep_no	date_of_birth
	50	Production Department	241	Annan Nagar	17001	Geetha	3001	50	2022-05-10
I	50	Production Department	241	Annan Nagar	17002	Guru	3002	50	2022-05-12
Į.	50	Production Department	241	Annan Nagar	17003	Gokul	3003	50	2022-05-15
6	50	HR Department	242	Velachery	17004	Mani	3004	60	2022-05-20
	50	Production Department	241	Annan Nagar	17005	Moorthy	3005	50	2022-05-23
1	50	Production Department	241	Annan Nagar	17006	Amutha	3006	50	2022-06-05
1	70	Sales Department	243	Guindy	17007	Jaga	3003	70	2022-06-06
4	50	HR Denartment	747	Velachery	17008	Pavithra	3007	60	7077-06-07

UNION

➤ **QUERY**: (select *from emp_det left join department_det7 on emp_det.dep_no=department_det7.dep_no)union(select *from department_det7 right join emp_det on department_det7.dep_no =emp_det.dep_no);

> Output:

	emp_id	emp_name	designation_id	dep_no	date_of_birth	dep_no	dep_name	branch_id	branch_name
8	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
	17004	Mani	3004	60	2022-05-20	60	HR Department	242	Velachery
	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
	17007	Jaga	3003	70	2022-06-06	70	Sales Department	243	Guindy
	17008	Pavithra	3007	60	2022-06-07	60	HR Denartment	242	Velachery
	ılt 30 ×			1,711	120.55.339.335	3.77.		1915	

TRIGGERS IN SQL

> Triggers creation: A database trigger is a stored program which is automatically fired or executed when some events occur.

TYPES OF TRIGGER

- Row Level Trigger: A event is triggered at low level for each row updated, inserted or deleted
- Statement Level Trigger: An event is triggered at table level for each SQL statement executed

TRIGGERS TIMING

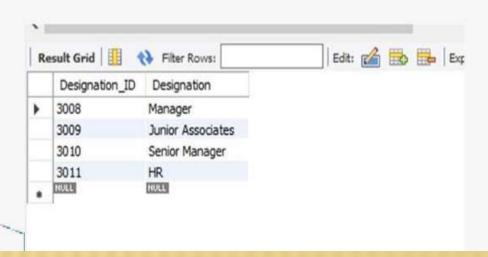
- Before Insert
- > After Insert
- Before Update
- After Update
- Before delete
- > After Delete

AFTER INSERT

> QUERY:

```
delimiter //
create trigger designation_update after insert on
designation_det1 for each row
Begin
insert into designation_backup(designation_id,designation) values
(new.Designation_ID,new.Designation);
end //
delimiter;
```

> Output:



BEFORE INSERT

> QUERY:

```
delimiter //
create trigger dep_update before insert on dep_det for each row
begin
if new.deplues (90,null ,242,'Tambaram'),(100,'Production

Department',243,'Adaiyar') name is null then
set new.dep_name ="update your dep_name";
end if;
end //
Delimiter;
```

Output :

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	
90	update your dep_name	242	Tambaram	
100	Production Department	243	Adaiyar	

TRIGGER BEFORE UPDATE

QUERY:

```
delimiter //
create trigger salary_check before update on emp_salary for each row
begin if new.salary>=40000 then
set new.salary="high_salary";
elseif new.salary>=35000 then
set new.salary="good salary";
elseif new.salary>=15000 then
set new.salary="average_salary";
elseif new.salary>=0 then
set new.salary="low_salary";
end if;
end //
delimiter:
```

