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AIM: 1.1 Familiarization with installation of any DBMS.

Description:

Introduction to MySQL on Windows and Installation

a. Overview of MySQL Edition:

MySQL is a database engine that provides fast, secure and scalable solutions for both small and large applications. MySQL is known for its reliability, scalability and ease of use, making it a popular choice for web developers and organizations worldwide. By installing MySQL on your Windows machine, you can:

- Store and manage data for various types of applications (websites, software, business systems).
- Use advanced SQL features for querying, filtering, and modifying data.
- Integrate with popular programming languages such as PHP, Python, Java, and Node.js.
- Scale your applications seamlessly, handling thousands of transactions and concurrent users.

SQL Command Line: A simple command-line interface called "SQL Command Line" was included for direct SQL execution and basic administration tasks.

b. Installation Steps:

Now, Let's break down MySQL software downloading steps for a better understanding and see install MySQL on Windows 10 step by step.

Step 1: Visit the Official MySQL Website

Open your preferred web browser and navigate to the official MySQL website. Now, Simple click on first download button.

Platform	Version	Size	Action
Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.35.0.msi)	8.0.35	2.1M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.35.0.msi)	8.0.35	288.6M	Download

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Step 2:

Go to the Downloads Section On the MySQL homepage, Click on the " **No thanks, just start my download**" link to proceed MySql downloading.

MySQL Community Downloads

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

Login »

using my Oracle Web account

Sign Up »

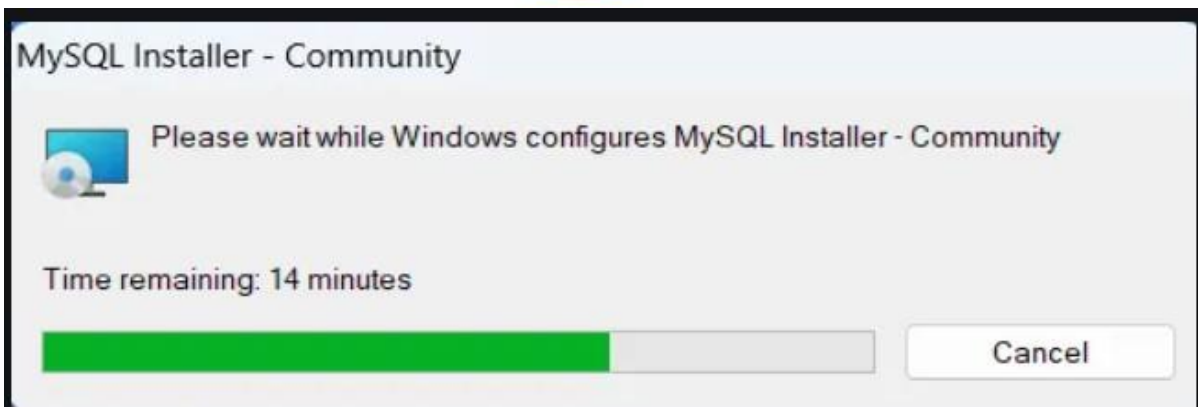
for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.

Step 3: Run the Installer

After MySQL downloading **MySQL.exe** file , go to your Downloads folder, find the file, and double-click to run the installer.



Step 4: Choose Setup Type

The installer will instruct you to choose the setup type. For most users, the "**Developer Default**" is suitable. Click "Next" to proceed.

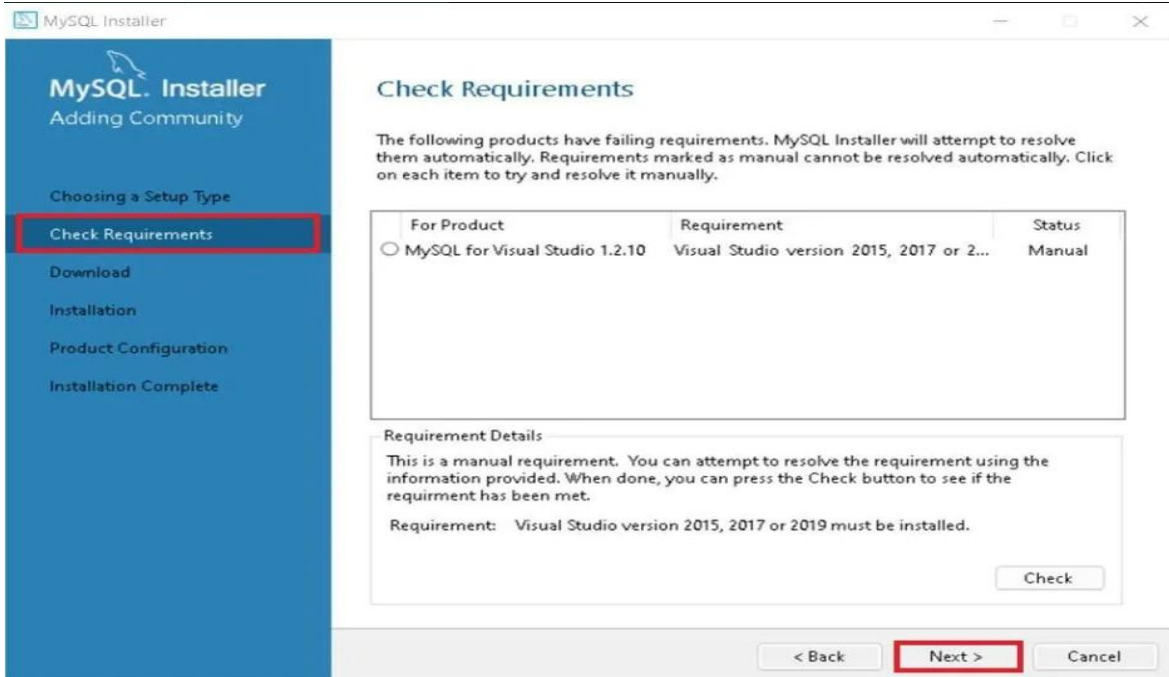
Step 5: Check Requirements

You might be prompted to install necessary MySQL software, typically **Visual Code**. The installer can auto-resolve some issues, but not in this case.

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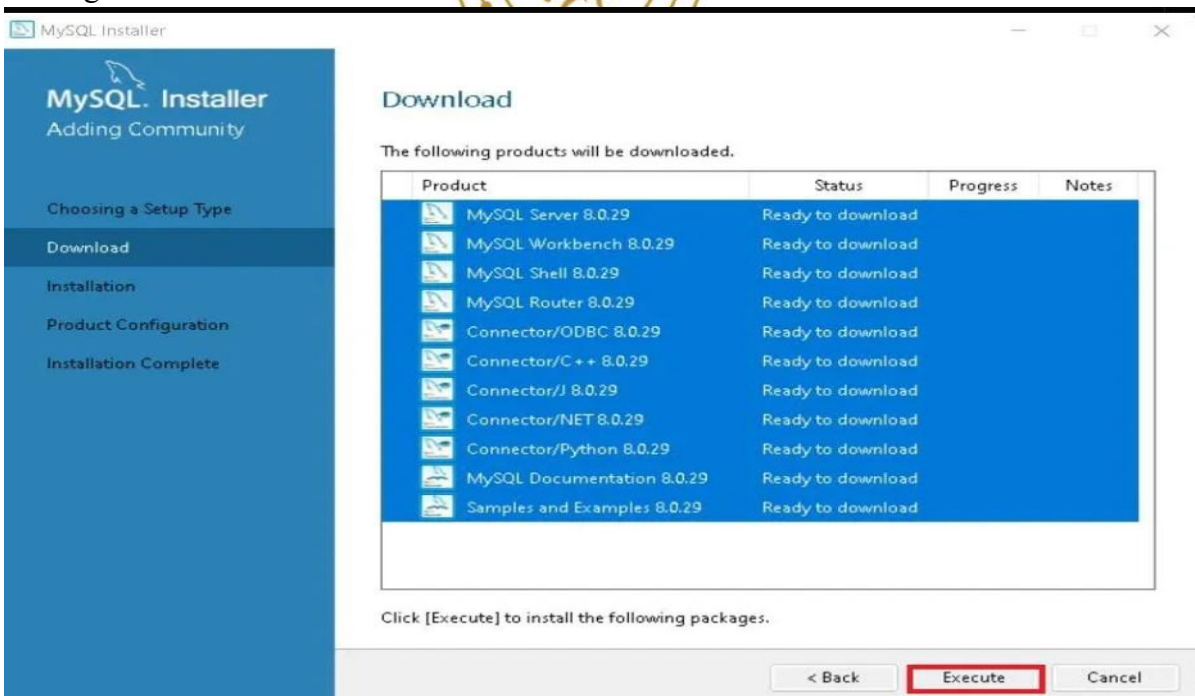
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Step 6: MySQL Downloading

Now that you're in the download section, click "**Execute**" to start downloading the components you selected. Wait a few minutes until all items show tick marks, indicating completion, before moving forward.



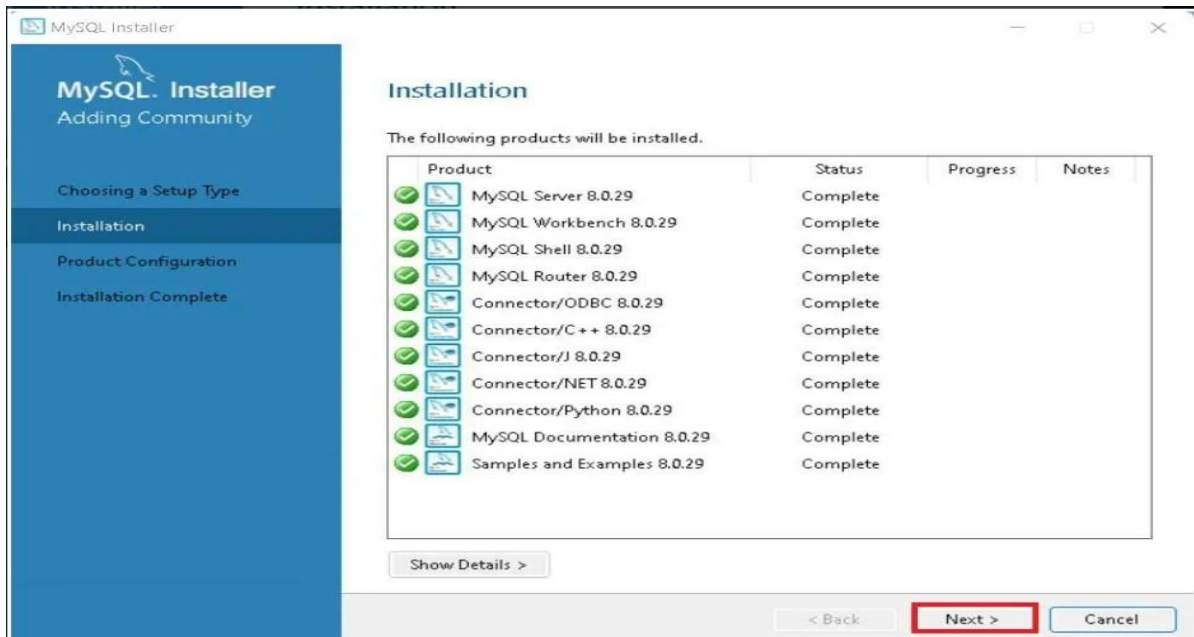
Step 7: MySQL Installation

Now the downloaded components will be installed. Click "**Execute**" to start the installation process. MySQL will be installed on your Windows system. Then click **Next** to proceed.

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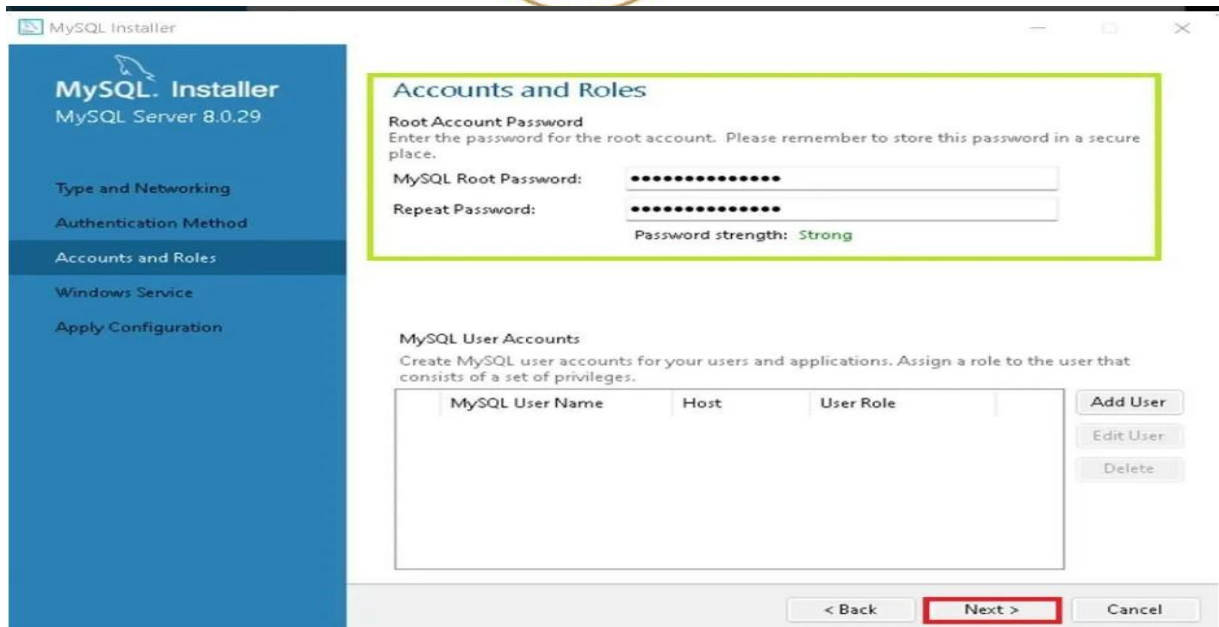


Step 8: Navigate to Few Configuration Pages

Proceed to "Product Configuration" > "Type and Networking" > "Authentication Method" Pages by clicking the "Next" button.

Step 9: Create MySQL Accounts

Create a password for the MySQL root user. Ensure it's strong and memorable. Click "Next" to proceed.



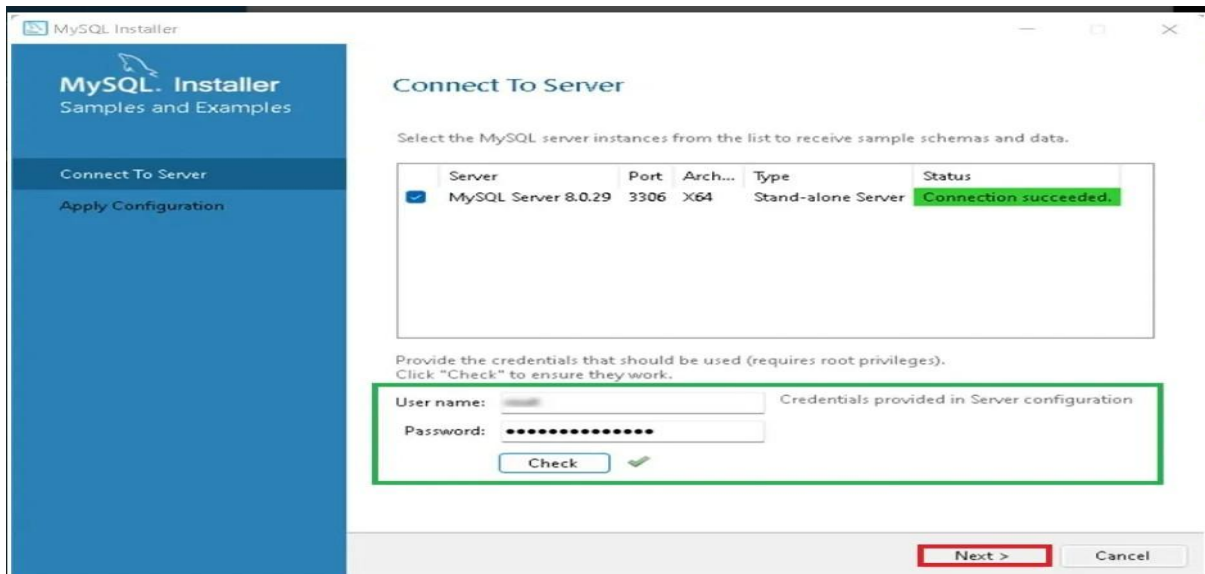
Step 10: Connect To Server

Enter the root password, click Check. If it says "Connection succeed," you have successfully connected to the server.

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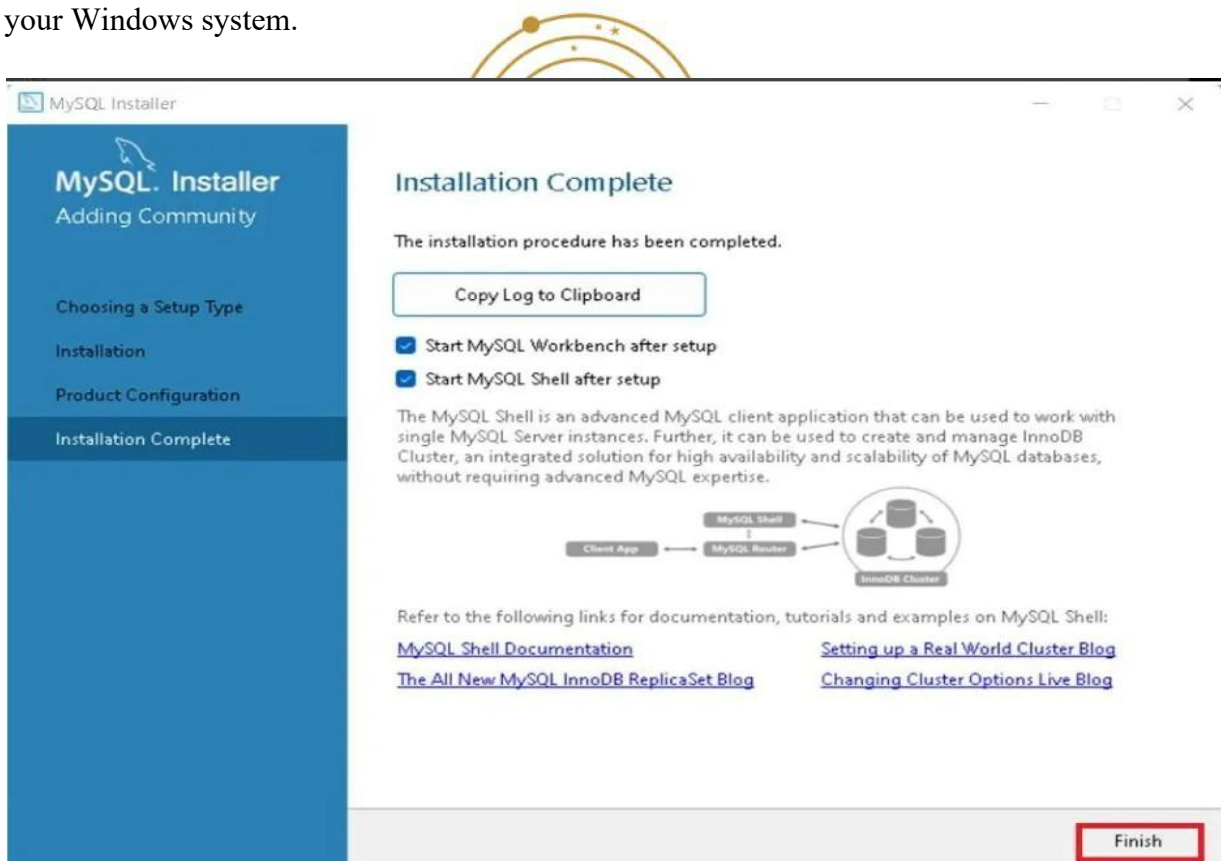
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Step 11: Complete Installation

Once the installation is complete, click "**Finish**." Congratulations! MySQL is now installed on your Windows system.



Step 12: Verify Installation

To ensure a successful installation of MySQL, open the MySQL Command Line Client or MySQL Workbench, both available in your Start Menu. Log in using the root user credentials you set during installation.

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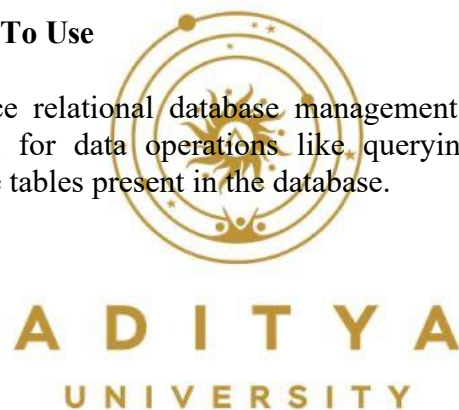
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MySQL Workbench Is Ready To Use

MySQL is an open-source relational database management system that is based on [SQL queries](#). MySQL is used for data operations like querying, filtering, sorting, grouping, modifying, and joining the tables present in the database.



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AIM: 1.2 Implementing a University Database System.

Description:

a. Schema

It is overall design of the database. It tells how many tables are there, what are their attributes, and how they are related. It includes table names, column names(attributes), datatypes, and keys.

Syntax of Schema:

Table Name (column1 : datatype, column2: datatype, column3: datatype,, columnN: datatype)

b. Attributes per Table

- **Students Table**

Attributes: StudentID, StudentName, Major

- **Courses Table**

Attributes: CourseID, CourseName, Credits

- **Enrollments Table**

Attributes: StudentID, CourseID, EnrollmentDate

- **Instructors Table**

Attributes: InstructorID, InstructorName, Phone

- **Course_Instructors Table**

Attributes: CourseID, InstructorID

c. Schema for University Database:

Students (StudentID:string, StudentName:string, Major:string) ;

Courses (CourseID:string, CourseName:string, Credits:integer) ;

Enrollments (StudentID:string, CourseID:string, EnrollmentDate:date);

Instructors (InstructorID:integer, InstructorName:string, Phone:integer) ;

Course_Instructors (CourseID:string, InstructorID:integer);



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AIM:2.1 Querying and modifying the database using Data Manipulation Language commands -select, insert, update, delete

Description:

DML COMMANDS are INSERT, UPDATE, DELETE and SELECT.

INSERT COMMAND:

This command is used to create data into the table which is already defined through DDL commands. The data can be entered in the form of rows and columns.

Syntax:

INSERT INTO <Table name> (column1, [column2, ,columnN]) values (column1value, column2value,.....,columnNvalue);
OR
INSERT INTO <Table name> Values (column1value,column2value,... ,columnNvalue);

UPDATE COMMAND:

This command is used to modify or change or replace the existing data of a table.

Syntax:

UPDATE <Table_name> Set <column1> = <column1value> [,<column2>=<column2value> ,.....,<columnN>=<columnNvalue>] [where<condition>];

DELETE COMMAND:

This command is used to remove a single row or multiple rows of a table.

Syntax: DELETE FROM<Table_name> [where<condition>];

SELECT COMMAND:

This command is used to view a single row or multiple rows or single column or multiple columns of a table.

Syntax:

Select [distinct] column1,column2 as newname from table1,table2 Where condition Group by column_name Having condition Order by column_name asc|desc;

Creating Students Table:

Syntax:

create table students (rollno varchar2(30), name varchar2(30));
Table Created.

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Inserting Data into the table:

insert into students values('24B11CS234','Bala'); 1 row(s) inserted.

insert into students values('24B11CS381','Kiran'); 1 row(s) inserted.

Displaying Data from the table

select * from students;

ROLLNO	NAME
24B11CS234	Bala
24B11CS381	Kiran

select name from students;

NAME
Bala
Kiran



select * from students9 where rollno='24B11CS234'

ROLLNO	NAME
24B11CS234	Bala

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Deleting a row from the table

delete from students where rollno='24B11CS381'; 1 row(s) deleted.

Updating a row in the table

update students set name='Bala Raju' where rollno='24B11CS381'; 1 row(s) updated.

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AIM: 2.2 Implementation of Aggregate Functions – sum, avg, min, max, count. Use group-by and having clause.

Description:

Aggregate Functions

AVG function: It can be used on numeric data or character data that contains only numeric's.

MAX function: It is used to find the maximum value of x. It can be used on any type of data.

MIN function: It is used to find the minimum value of x

SUM function: It sums the values and can be used on numeric data also.

COUNT(*): It counts the number of rows in the table or the number of row in the group including NULL.

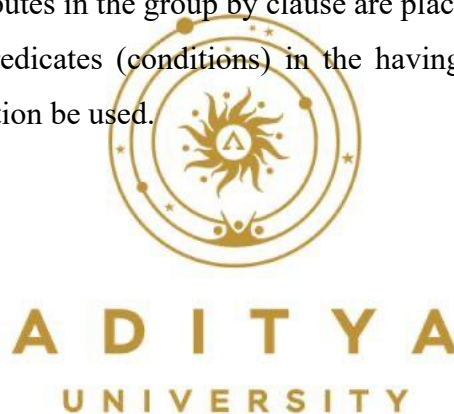
Group by: The attribute or attributes given in the clauses are used to form groups. Tuples with the same value on all attributes in the group by clause are placed in one group.

Having: SQL applies predicates (conditions) in the having clause after groups have been formed, so aggregate function be used.

Source Table

select * from company;

company	amount
wipro	5000
ibm	8000
dell	9000
wipro	2000
dell	10000



Queries

Find the average salary of company

Select AVG (amount) from company;

AVG(AMOUNT)
6800

Find the Sum of salaries of company

Select SUM(amount) from company;

SUM(AMOUNT)
34000

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Find the Maximum amount of company

Select Max(amount) from company;

MAX(AMOUNT)
10000

Find the Minimum amount of company

Select Min(amount) from company;

MIN(AMOUNT)
2000

Find the number of rows in a company

Select Count(*) from company;

COUNT(*)
5

Find the sum of amount of each company.

select company, sum(amount) from company group by company;

COMPANY	SUM(AMOUNT)
wipro	7000
dell	19000
ibm	8000

Find the minimum amount of each company.

select company,min(amount) from company group by company;

COMPANY	MIN(AMOUNT)
wipro	2000
dell	9000
ibm	8000

Find the maximum amount of each company.

select company,max(amount) from company group by company;

COMPANY	MAX(AMOUNT)
wipro	5000
dell	10000
ibm	8000

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Find the count of all the rows grouped by each company name.

select companyn,count(*) from company group by companyn;

COMPANYN	COUNT(*)
wipro	2
dell	2
ibm	1

Find the count of all the rows grouped by each company name & having count greater than 1.

select companyn,count(*) from company group by companyn having count(*)>1;

COMPANYN	COUNT(*)
wipro	2
dell	2

Find the sum of amount of each company and having sum of amount greater than 10000.

select companyn, sum(amount) from company group by companyn having sum(amount)>10000;

COMPANYN	SUM(AMOUNT)
dell	19000

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UNIVERSITY

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AIM: 3.1 Perform Join Operations-Natural Join, Equi-Join, Outer Join, Left Outer Join, Right Outer Join, Inner Join and assess the impact of query plans on the performance of join heavy queries.

Description:

JOIN Keyword is used in SQL queries for joining two or more tables.

Types of Joins

Inner Join

The INNER JOIN keyword selects records that have matching values in both tables.

Syntax: select * from tablename1 inner join tablename2 on condition

Outer Join

Outer Join is based on both matched and unmatched data.

It is divided into

1) Left outer join

The left outer join returns a resultset table with the matched data from the two tables and then the remaining rows of the left table and null from the right table's columns.

Syntax:

SELECT column-name-list FROM table-name1 LEFT OUTER JOIN table-name2 ON table-name1.column-name = table-name2.column-name;

2) Right outer join

The right outer join returns a resultset table with the matched data from the two tables being joined, then the remaining rows of the right table and null for the remaining left table's columns.

Syntax:

SELECT column-name-list FROM table-name1 RIGHT OUTER JOIN table-name2 ON table-name1.column-name = table-name2.column-name;

Natural join

It is based on column having same name and same datatype present in both the tables to be joined.

Syntax:

SELECT * FROM table-name1 NATURAL JOIN table-name2;

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Cross join

It will return a table which consists of records which combines each row from the first table - with each row of the second table.

Syntax: `select * from tablename1,tablename2;`

Self Join

A **self join** is a **join** in which a table is joined with itself.

EQUI Join


An Equi Join in SQL is a type of join that combines rows from two or more tables based on a common column or set of columns, using only the equality operator (=) to compare the values in those columns.

Syntax

`SELECT column-name-list FROM table1, table2.... WHERE table1.column_name =table2.column_name;`

Source Tables

`select *from tb1;`



RNO	NAME	MARKS
503	Suma	40
504	Raju	70
505	Ramu	45
501	Abhi	50
502	Ravi	60

`select * from tb2;`

RNO	FEE
501	15000
502	5000
503	10000
504	25000

Inner Join

`select *from tb1 inner join tb2 on tb1.rno=tb2.rno;`

Or use the below query also

`select *from tb1 join tb2 on tb1.rno=tb2.rno;`

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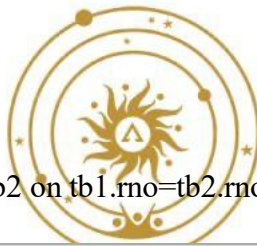
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RNO	NAME	MARKS	RNO	FEE
503	Suma	40	503	10000
504	Raju	70	504	25000
501	Abhi	50	501	15000
502	Ravi	60	502	5000

Left Outer Join

select * from tb1 left outer join tb2 on tb1.rno=tb2.rno;

RNO	NAME	MARKS	RNO	FEE
501	Abhi	50	501	15000
502	Ravi	60	502	5000
503	Suma	40	503	10000
504	Raju	70	504	25000
505	Ramu	45	-	-



Right outer join

select * from tb1 right outer join tb2 on tb1.rno=tb2.rno;

RNO	NAME	MARKS	RNO	FEE
503	Suma	40	503	10000
504	Raju	70	504	25000
501	Abhi	50	501	15000
502	Ravi	60	502	5000

Natural join

select * from tb1 natural join tb2;

RNO	NAME	MARKS	FEE
503	Suma	40	10000
504	Raju	70	25000
501	Abhi	50	15000
502	Ravi	60	5000

Cross join

select * from tb1 cross join tb2;

or use the below query

select * from tb1, tb2;

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RNO	NAME	MARKS	RNO	FEE
503	Suma	40	501	15000
504	Raju	70	501	15000
505	Ramu	45	501	15000
501	Abhi	50	501	15000
502	Ravi	60	501	15000
503	Suma	40	502	5000
504	Raju	70	502	5000
505	Ramu	45	502	5000
501	Abhi	50	502	5000
502	Ravi	60	502	5000
503	Suma	40	503	10000
504	Raju	70	503	10000
505	Ramu	45	503	10000
501	Abhi	50	503	10000
502	Ravi	60	503	10000
503	Suma	40	504	25000
504	Raju	70	504	25000
505	Ramu	45	504	25000
501	Abhi	50	504	25000
502	Ravi	60	504	25000

Self Join:

select t1.rno, t2.name from tb1 t1, tb1 t2 where t1.rno=t2.rno;

RNO	NAME
503	Suma
504	Raju
505	Ramu
501	Abhi
502	Ravi

EQUI Join:

select * from tb1, tb2 where tb1.rno=tb2.rno;

RNO	NAME	MARKS	RNO	FEE
503	Suma	40	503	10000
504	Raju	70	504	25000
501	Abhi	50	501	15000
502	Ravi	60	502	5000

AIM: 3.2 Perform Set Operations-Union, Intersection, Set Difference Description:

Set Operators

- 1) **UNION** is used to combine the results of two or more **SELECT** statements. It will eliminate duplicate rows from its resultset.

Syntax:-

```
SELECT column_name FROM table1
UNION
SELECT column_name FROM table2;
```

- 2) **UNION ALL** This is similar to Union. But it also shows the duplicate rows.

Syntax:-

```
SELECT column_name FROM table1
UNION ALL
SELECT column_name FROM table2;
```

- 3) **Intersect operation** is used to combine two **SELECT** statements, but it only returns the records which are common from both **SELECT** statements.

Syntax:-

```
SELECT column_name FROM table1
INTERSECT
SELECT column_name FROM table2;
```

- 4) **The Minus operation** combines results of two **SELECT** statements and return only those in the final result, which belongs to the first set of the result.

Syntax:-

```
SELECT column_name FROM table1
MINUS
SELECT column_name FROM table2;
```

INTERSECT and EXCEPT are not natively supported in MySQL but can be implemented using JOIN or NOT EXISTS techniques.

Intersect operation in mysql

```
SELECT column1, column2 FROM table1 INNER JOIN table2 USING (column1, column2);
```

Minus operation in mysql

```
SELECT column1, column2 FROM table1 LEFT JOIN table2 USING (column1, column2)
WHERE table2.column1 IS NULL;
```

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Source Tables

Sailors Table

SID	SNAME	AGE	RATING
22	Dustin	45	7
29	Brutus	33	1
31	Lubber	55.5	8
32	Andy	25.5	8
64	Horatio	35	7
71	Zobra	16	10
74	Ravi	40	9
85	Art	26.5	3
95	Bob	63.5	3
58	Rusty	35	10

Boats Table

BID	BNAME	BCOLOR
101	Interlake	Blue
102	Interlake	Red
104	Marine	Red
103	Clipper	Green

Reserves Table

SID	BID	RDATE
22	101	10-OCT-98
22	102	10-OCT-98
22	103	08-OCT-98
22	104	07-OCT-98
31	102	10-NOV-98
31	103	06-NOV-98
31	104	12-NOV-98
64	101	05-SEP-98
64	102	08-SEP-98
74	103	08-SEP-98

Find the names of sailors who have reserved a red or a green boat

```
select s.sname from sailors s, reserves r,boats b where s.sid=r.sid and b.bid=r.bid and b.bcolor='Red'
```

UNION

```
select s1.sname from sailors s1,reserves r1,boats b1 where s1.sid=r1.sid and r1.bid=b1.bid and b1.bcolor='Green';
```

SNAME
Dustin
Horatio
Lubber
Ravi

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Find the names of sailors who have reserved a red or a green boat

```
select s.sname from sailors s, reserves r,boats b where s.sid=r.sid and b.bid=r.bid and  
b.bcolor='Red'
```

UNION all

```
select s1.sname from sailors s1,reserves r1,boats b1 where s1.sid=r1.sid and r1.bid=b1.bid and  
b1.bcolor='Green';
```

SNAME
Dustin
Lubber
Horatio
Dustin
Lubber
Dustin
Lubber
Ravi

Find the names of sailors who have reserved both a red and green boat.

```
select s.sname from sailors s, reserves r,boats b where s.sid=r.sid and b.bid=r.bid and  
b.bcolor='Red'
```

INTERSECT

```
select s1.sname from sailors s1,reserves r1,boats b1 where s1.sid=r1.sid and r1.bid=b1.bid and  
b1.bcolor='Green';
```

SNAME
Dustin
Lubber

Find the names of sailors who have reserved a red boat but not a green boat

```
select s.sname from sailors s, reserves r,boats b where s.sid=r.sid and b.bid=r.bid and  
b.bcolor='Red'
```

MINUS

```
select s1.sname from sailors s1,reserves r1,boats b1 where s1.sid=r1.sid and r1.bid=b1.bid and  
b1.bcolor='Green';
```

SNAME
Horatio

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AIM:3.3 Implementation of Correlated sub-queries and Nested queries

Description:

Nested Queries

A query within another SQL query and embedded within the WHERE clause. In Nested Query, Inner query runs first, and only once. Outer query is executed with result from Inner query.

1) IN and NOT IN

It tests whether a value is in a given set of elements

Syntax:-

Select column_name from table_name Where column_name IN/NOT IN (Select column_name from table_name Where condition);

2) ALL and ANY

It is used to compare a value to a list. It is preceded by comparison operator and followed by a list.

Syntax:-

Select column_name from table_name Where column_name comparison operator ALL/ANY(subquery);

Correlated Sub query

In Correlated sub query, a query is nested inside another query and an inner query uses values from the outer query.

Syntax:-

SELECT column_names FROM table_name WHERE EXISTS/NOT EXISTS (SELECT column_name FROM table_name WHERE condition);

Find the names of sailors who have reserved boat no 103.

```
select s.sname from sailors s where s.sid IN( select r.sid from reserves r where r.bid=103);
```

SNAME
Dustin
Lubber
Ravi

Find the names of sailors who have not reserved boat no 103.

```
select s.sname from sailors s where s.sid NOT IN( select r.sid from reserves r where r.bid=103);
```


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SNAME
Brutus
Andy
Horatio
Zobra
Art
Bob
Rusty

Find the sailor id with the highest rating

```
select s.sid from sailors s where s.rating>=all(select s1.rating from sailors s1);
```

SID
71
58

Find the sailor id whose rating is better than some sailor called andy.

```
select s.sid from sailors s where s.rating>ANY(select  
s1.rating from sailors s1 where s1.sname='Andy');
```

SID
71
58
74

Correlated Sub query

Find the names of sailors who have reserved boat no 103

```
select s.sname from sailors s where EXISTS(select * from reserves r where s.sid=r.sid and  
r.bid=103);
```

SNAME
Dustin
Lubber
Ravi

Find the names of sailors who have not reserved boat no 103

```
select s.sname from sailors s where NOT EXISTS(select * from reserves r where s.sid=r.sid and  
r.bid=103);
```

SNAME
Brutus
Andy
Horatio
Zobra
Art
Bob
Rusty

Date:

Roll No.

2	4	B	1	1	A	1	2	7	2
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AIM: 3.4 Creating and Querying views and Materialized views.

Description:

View

A view is a logical table based on the result set of an SQL Statement. A view contains rows and columns, just like a table. The fields in a view are fields from one or more base tables in the database. We can apply all DDL and DML statements on views.

Syntax:

Create or replace force/noforce view viewname as Select column_list from table_list

Where condition with read only/check option

Dropping a view

syntax:

Drop view viewname;

Source Table



ROLLNO	NAME	MARKS
501	jyothi	90
502	sai	95
504	yamuna	70
505	padma	60
503	ravi	80

A

Creating View

create view my_view as select rollno, name from source_table;

view created

Display Views and Tables in your login

select * from tab;

ST1	TABLE
MYVIEW	VIEW
STUDENTS	TABLE
COURSES	TABLE
INSTRUCTORS	TABLE
TEACHES	TABLE
ENROLLMENTS	TABLE
STU_VIEW	VIEW
STUDENT_LOG	TABLE
COMPANY	TABLE
LOC	TABLE
EMPLOYEE	TABLE
JOB	TABLE
DEP	TABLE
STU2	TABLE

Date:

Roll No.

2	4	B	1	1	A	1	2	7	2
---	---	---	---	---	---	---	---	---	---

Inserting a row in view

```
insert into myview values(506,'prathisha');
```

1 row(s) inserted

Display view

```
select * from myview;
```

ROLLNO	NAME
501	jyothi
502	sai
506	prathisha
504	yamuna
505	padma
503	ravi

Displaying Table

```
select * from st1;
```



ROLLNO	NAME	MARKS
501	jyothi	90
502	sai	95
506	prathisha	-
504	yamuna	70
505	padma	60
503	ravi	80

Deleting a row in a view

```
delete from myview where rollno=506; 1  
row(s) deleted
```

Display view

```
select * from myview;
```

ROLLNO	NAME
501	jyothi
502	sai
504	yamuna
505	padma
503	ravi

Date:

Roll No.

2	4	B	1	1	A	1	2	7	2
---	---	---	---	---	---	---	---	---	---

Displaying Table

select * from st1;

ROLLNO	NAME	MARKS
501	jyothi	90
502	sai	95
504	yamuna	70
505	padma	60
503	ravi	80

Change the Structure of the View

create or replace view myview as select * from st1; view created.

Creating View when base table doesn't exist

create or replace force view abc as select * from dummy_table;

Warning: View created with compilation errors.

Creating Read only view

create view myview1 as select * from st1 with read only;
view created

Inserting Data in Read only view

insert into myview1 values(503,'prathisha',80);

MYSQL-01733: virtual column not allowed here

update myview1 set name='suma' where

rollno=505; MYSQL-01733: virtual column not allowed here

Displaying view

select * from myview1;

ROLLNO	NAME	MARKS
501	jyothi	90
502	sai	95
504	yamuna	70
505	padma	60
503	ravi	80

Date:

Roll No.

2	4	B	1	1	A	1	2	7	2
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Creating View with check option

create view myview2 as select * from st1 where marks<101 with check option;

view created.

Inserting a row into view

insert into myview2 values(504,'siri',101);

MYSQL-01402: view WITH CHECK OPTION where-clause violation

Dropping view

Drop View myview1;

View dropped.

Complex view:

Creating a view from multiple tables

In this example will create a view named *MarksView* by taking data from both the table's student details and student marks

To create a View from multiple tables just simply include multiple tables in the *SELECT statement*

Table1:

ROLLNO	NAME	MARKS
501	jyothi	90
502	sai	95
504	yamuna	70
505	padma	60
503	ravi	80

Table2:

SID	BID	RDATE
22	101	10-OCT-98
22	102	10-OCT-98
22	103	08-OCT-98
22	104	07-OCT-98
31	102	10-NOV-98
31	103	06-NOV-98
31	104	12-NOV-98
64	101	05-SEP-98
64	102	08-SEP-98
74	103	08-SEP-98

Date:

Roll No.

2	4	B	1	1	A	1	2	7	2
---	---	---	---	---	---	---	---	---	---

Creating Complex View

create view myview as select rollno, name, sid, bib from Table1, Table2; view created

Display Views and Tables in your login

select * from Table1, Table2;

Change the Structure of the View

create or replace view myview as select * from Table1, Table2;

view created.

Dropping a view

syntax:

Drop view viewname;

Generally, **DML operations (INSERT, UPDATE, DELETE)** are **not allowed** on complex view.

