

TY B.Tech. (CSE) – II [2022-23]

5CS372 : Advanced Database System Lab.

Assignment No. 8

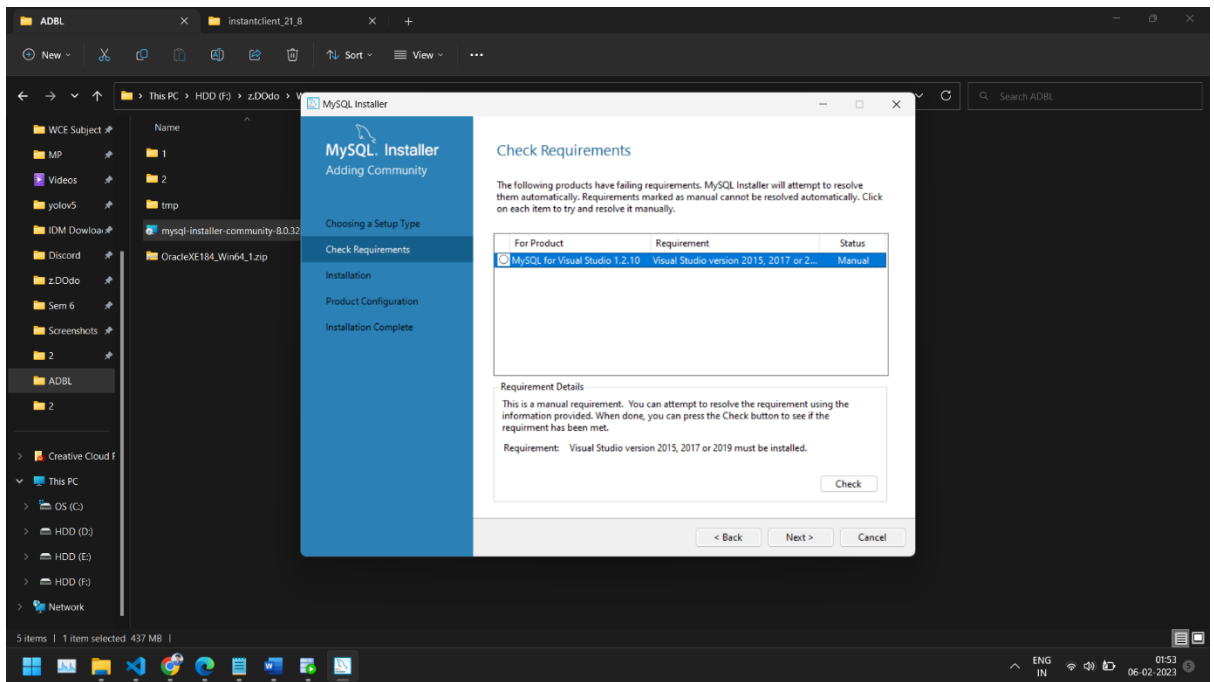
2020BTECS00079

Saurabh Khadsang

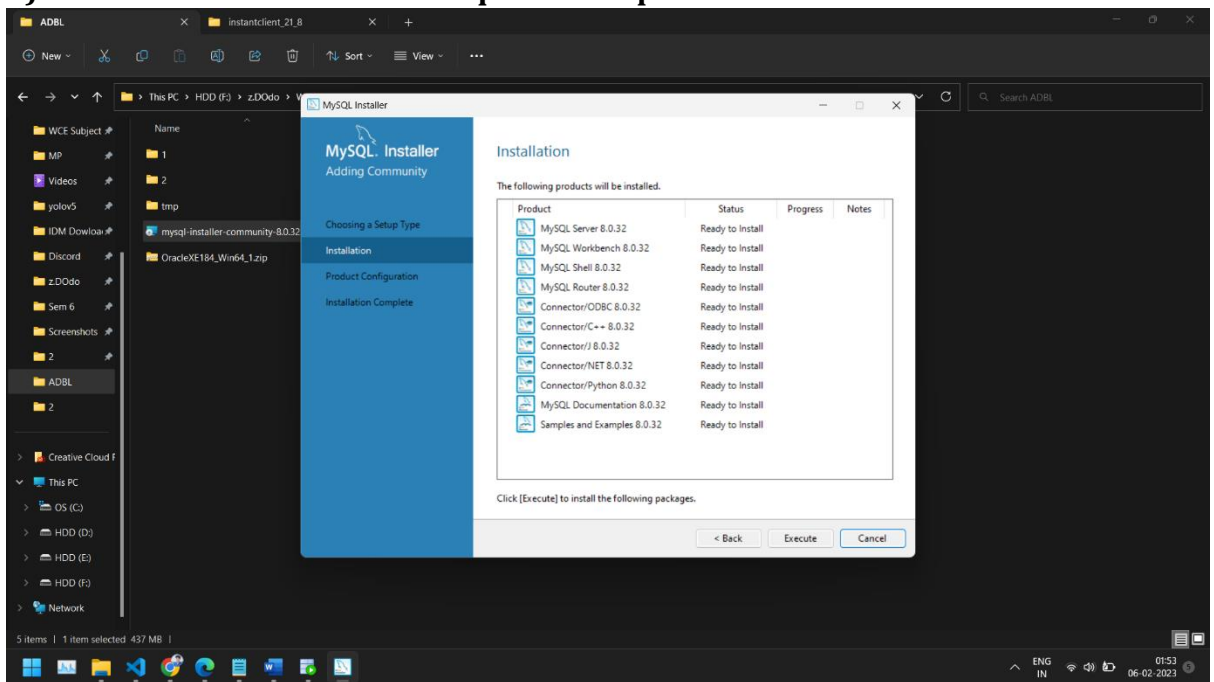
- 1. Do the installation and configuration of Oracle/MySQL/IBM DB2 distributed databases. [Take minimum 3 nodes]**
- 2. Use the above installed distributed database as backend for Assignment No.3 & 4.**
- 3. Demonstrate the working by connecting portals to different nodes, adding data from one node and available / display on portal connected to another node etc.**

MySQL installation:

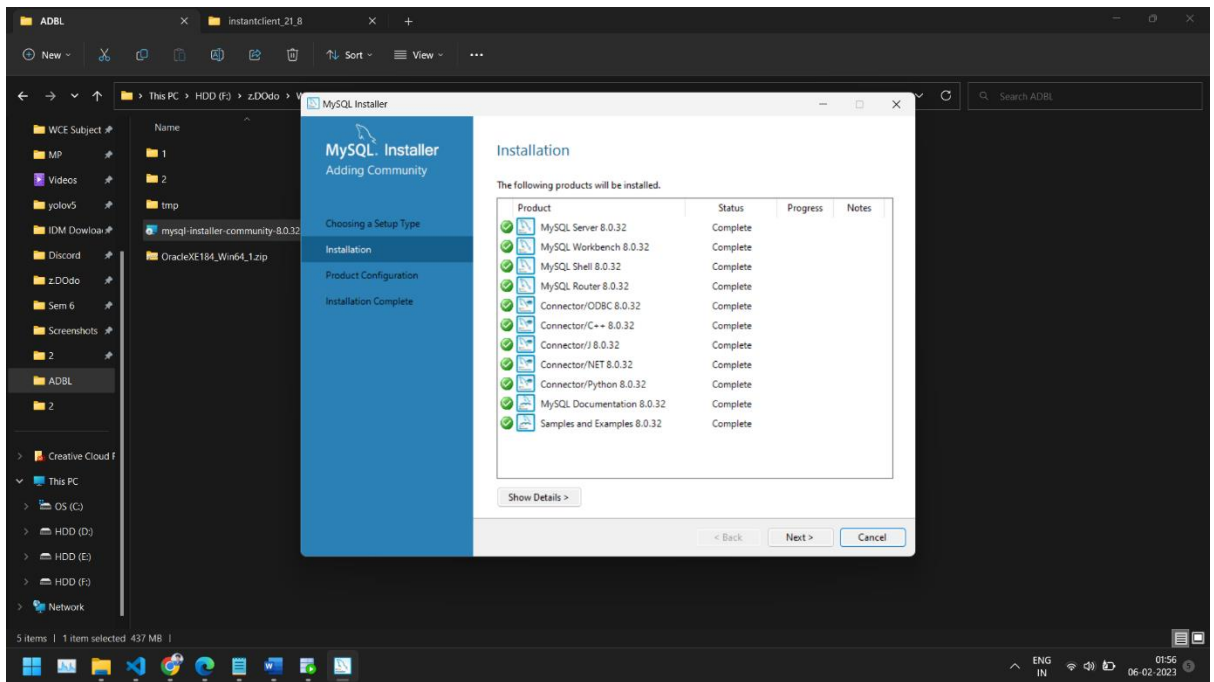
- 1) Install the setup for MySQL from MySQL [website](#). Run the setup.exe. Choose installation type as 'Full'.**
- 2) It will check whether your computer satisfies the necessary requirements. Install the necessary requirements (select requirements and click Execute) and click next. requirements and click Execute) and click next.**



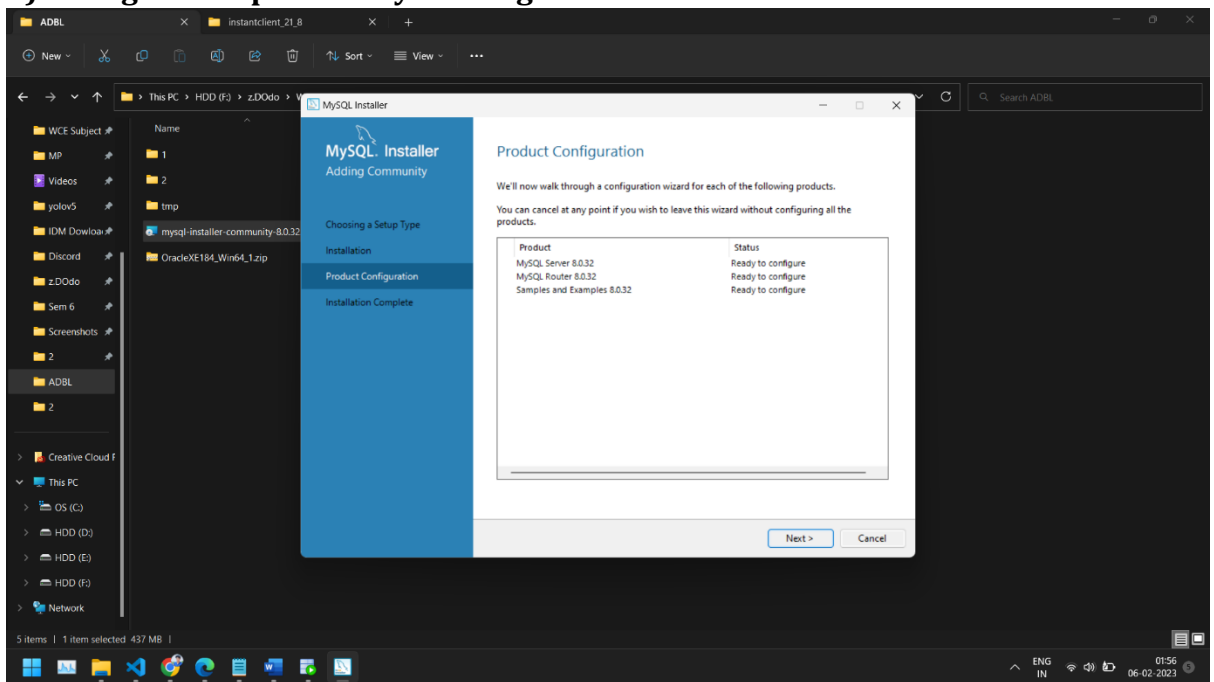
3) Click execute to install the required setups.



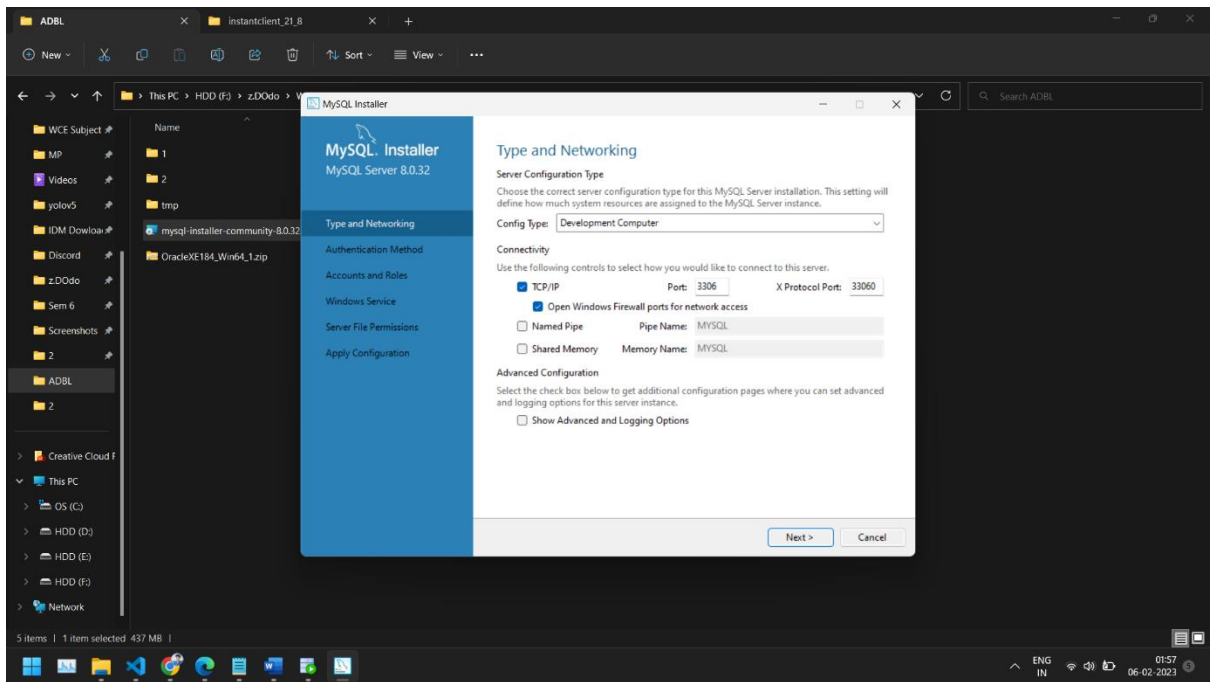
4) Wait until all the files are installed.



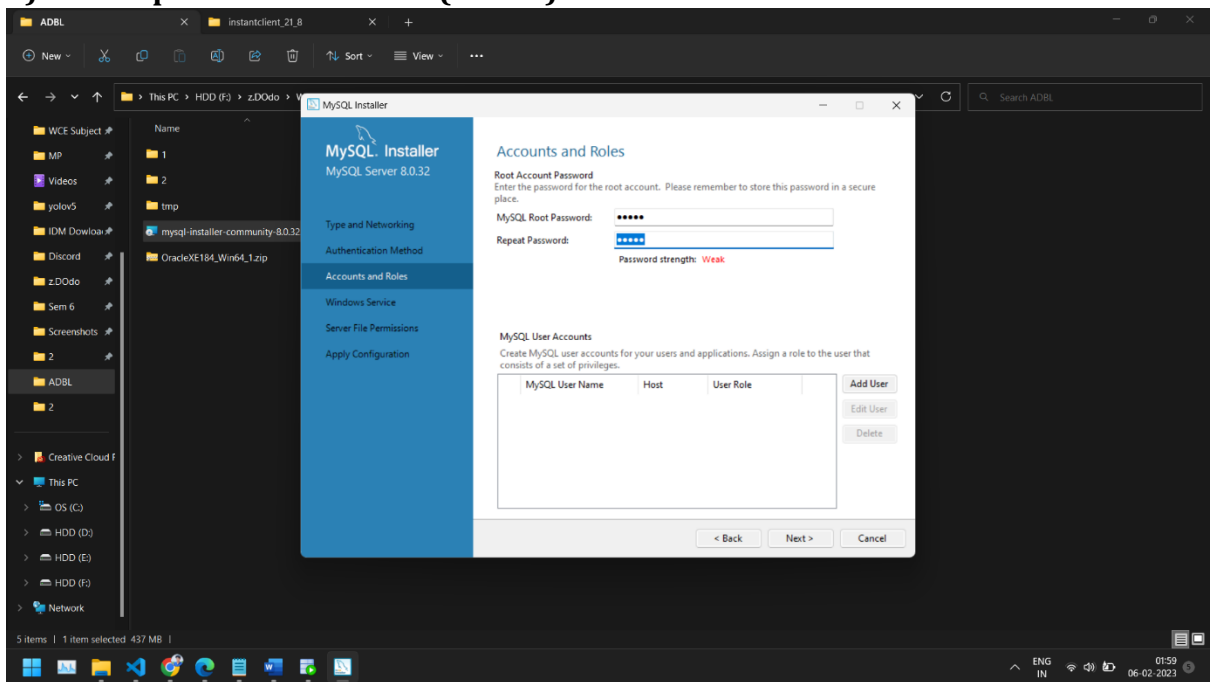
5) Configure the product by clicking next.



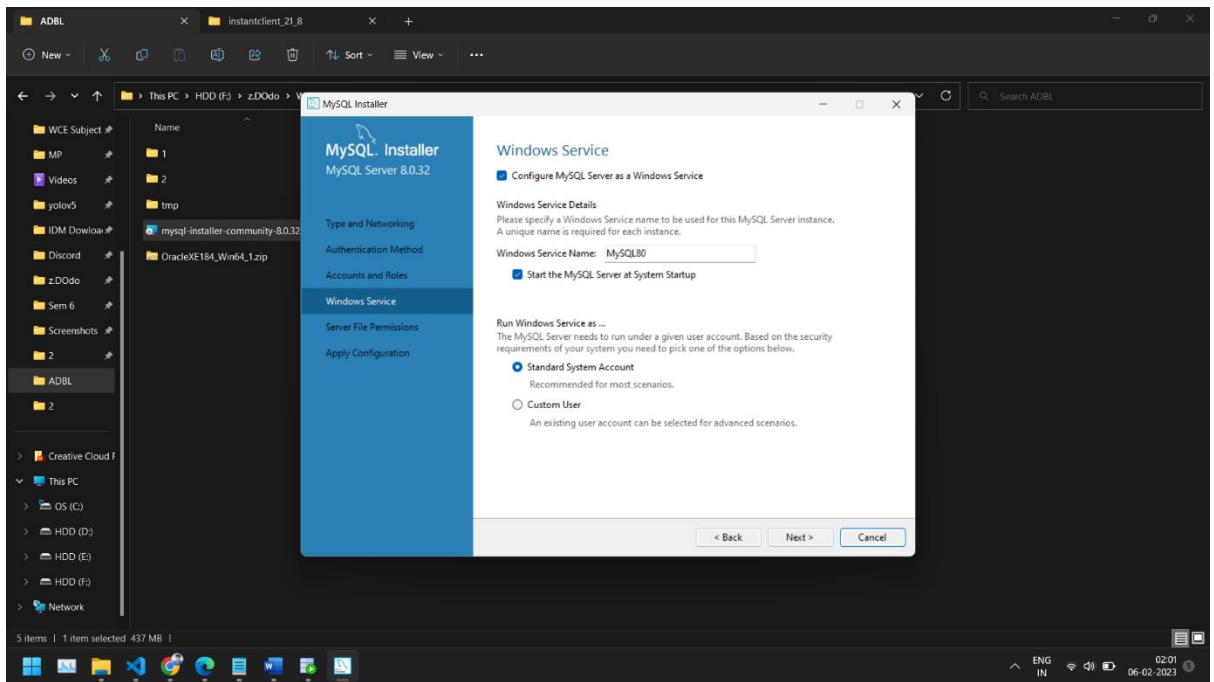
6) Configure the network and click next.



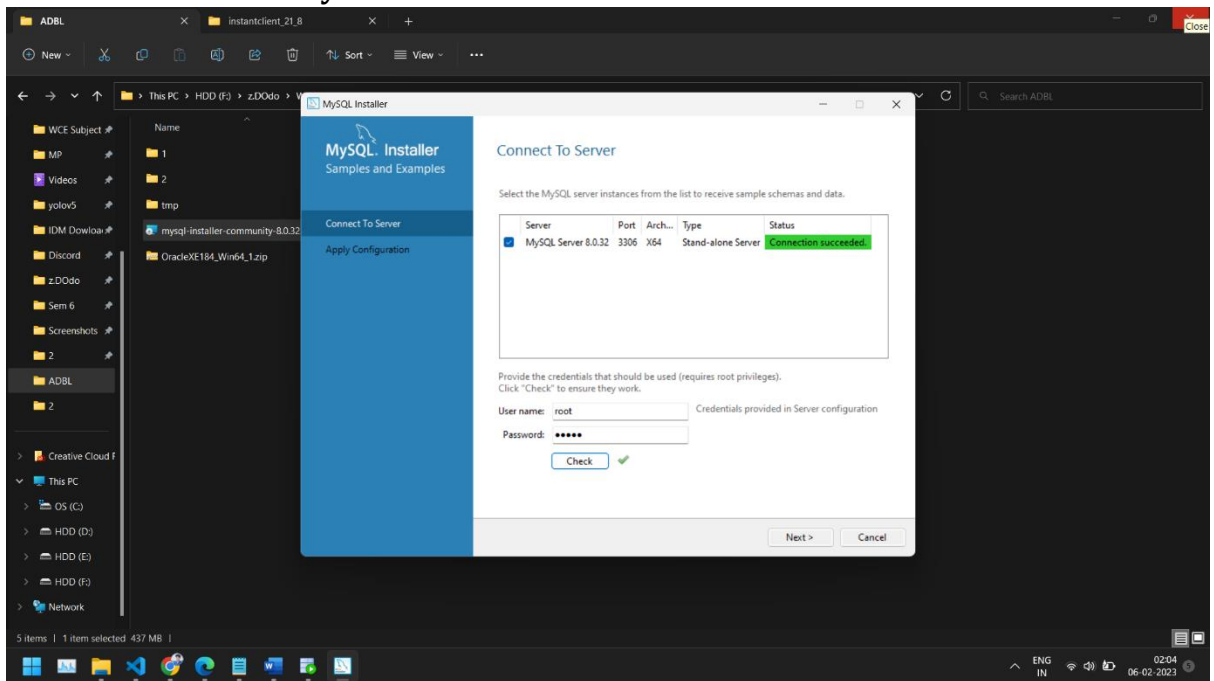
7) Set the password for 'root' (admin) and click next.



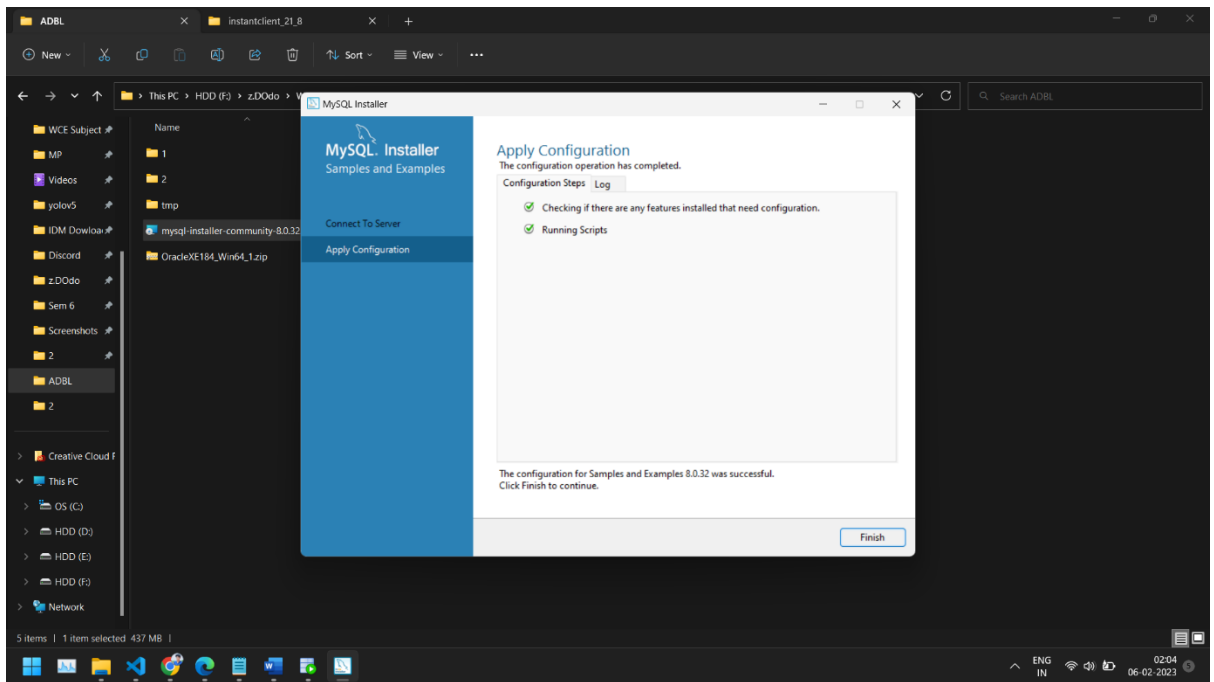
8) Configure the windows service to start. Click next.



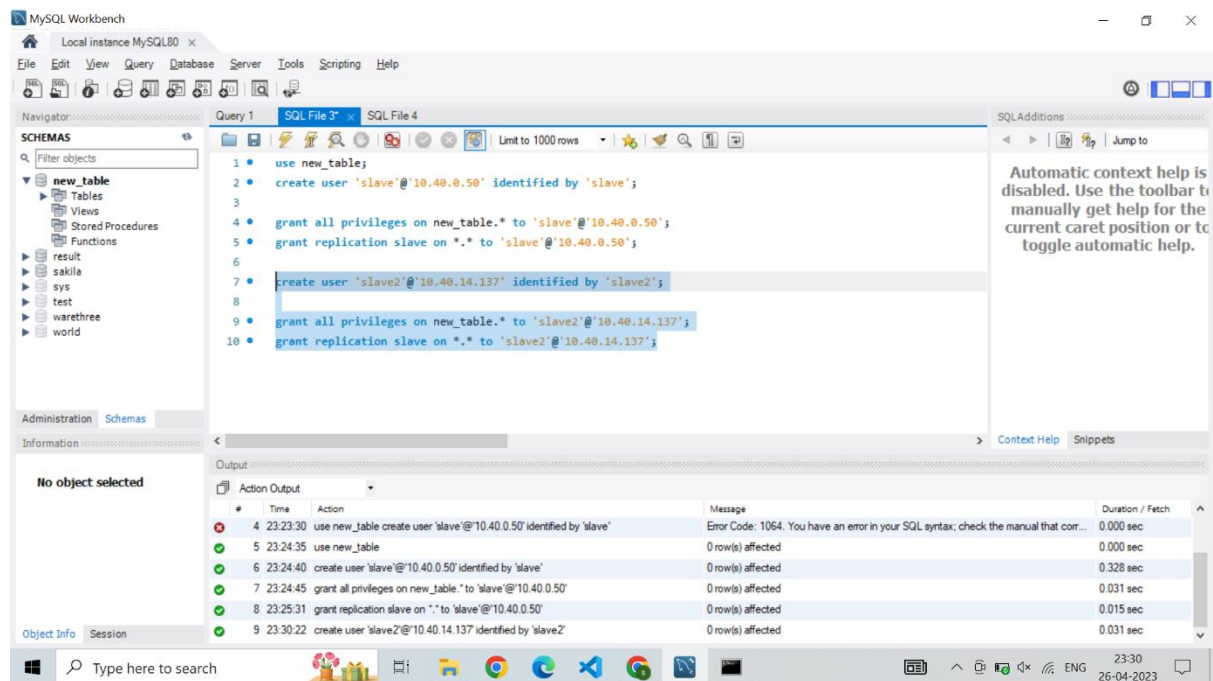
**9) Connect to server by logging in with the created credentials.
Check the connectivity.**



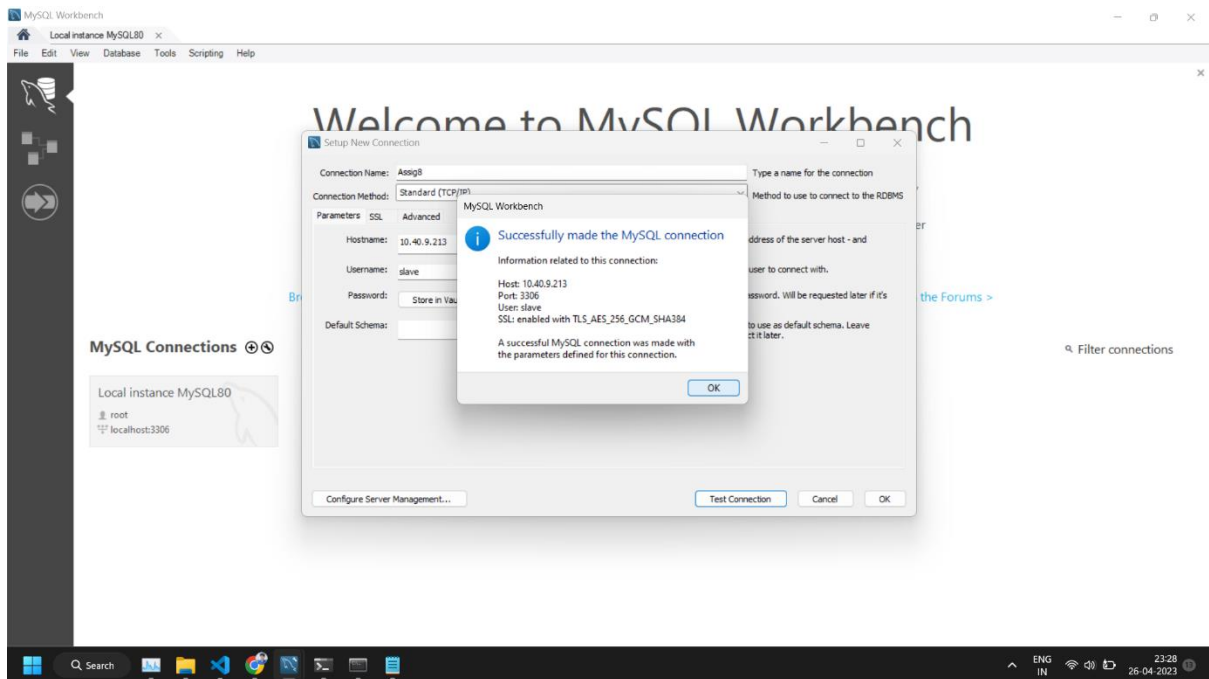
10) Apply the configuration by clicking on execute. Wait for all changes to be applied. MySQL is installed successfully.



MASTER NODE :



SLAVE 1:



MySQL Workbench

Local instance MySQL80 x

File Edit View Database Tools Scripting Help

Welcome to MySQL Workbench

Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Configure Server Management... Test Connection Cancel OK

MySQL Connections

Local instance MySQL80

root localhost:3306

MySQL Workbench

Local instance MySQL80 x Assig8 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

new_table

Tables

- advisor
- classroom
- course
- instructor
- department
- prereq
- question
- result
- section
- student
- students
- takes
- teaches
- test
- time_slot
- Views

Administration Schemas

Information

Table: students

Columns:

- id INT AI PK
- name varchar(255)
- prn varchar(10)
- email varchar(255)

Query 1

```
1 use new_table;
2
3
4 select * from new_table;
5
6 CREATE TABLE students (
7   id INT AUTO_INCREMENT PRIMARY KEY,
8   name VARCHAR(255) NOT NULL,
9   prn VARCHAR(10) NOT NULL,
10  email VARCHAR(255) NOT NULL
11 );
12
13 INSERT INTO students (name, prn, email)
14 VALUES
15 ('John Doe', 'P12345', 'john.doe@example.com');
```

Result Grid

#	id	name	prn	email
1	John Doe	P12345	john.doe@example.com	
2	Jane Smith	P23456	jane.smith@example.com	
3	Bob Johnson	P34567	bob.johnson@example.com	
4	Samantha Lee	P45678	samantha.lee@example.com	
5	Mike Miller	P56789	mike.miller@example.com	

students 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	23:36:46	CREATE TABLE students (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255) ...	0 row(s) affected	0.547 sec
4	23:37:08	INSERT INTO students (name, prn, email) VALUES ('John Doe', 'P12345', 'john.doe@example.co...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.141 sec
5	23:37:35	select * from students LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

ENG IN 23:37 26-04-2023

SLAVE 2:

Setup New Connection

Connection Name:assignment 8

Type a name for the connection

Connection Method:Standard (TCP/IP)

Method to use to connect to the RDBMS

ParametersSSLAdvanced

Hostname:10.40.9.213

Username:slave2

Password:Store in Vault

Default Schema:

Test ConnectionCancelOK

Configure Server Management...

MySQL Workbench

Successfully made the MySQL connection

Information related to this connection:

Host: 10.40.9.213

Port: 3306

User: slave2

SSL: enabled with TLS_AES_256_GCM_SHA384

A successful MySQL connection was made with the parameters defined for this connection.

OK

MySQL Workbench

Local instance MySQL80 - Wamin xassignment 8 x

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHMAS

Filter objects

instructor

prereq

question

result

section

student

Columns

Indexes

Foreign Keys

Triggers

students

Columns

Indexes

Foreign Keys

Triggers

takes

teaches

test

time_slot

Views

AdministrationSchemas

Information

Table: students

Columns:

idint AI PK

namevarchar(255)

pmvarchar(10)

emailvarchar(255)

Query 1 x

1use new_table ;

2select * from students;

3

Result Grid

Filter Rows

Limit to 1000 rows

1John DoeP12345john.doe@example.com

2Jane SmithP23456jane.smith@example.com

3Bob JohnsonP34567bob.johnson@example.com

4Samantha LeeP45678samantha.lee@example.com

5Mike MillerP56789mike.miller@example.com

Students 1 x

Output

Action Output

TimeActionMessageDuration / Fetch

118:09:07use new_table0 row(s) affected0.078 sec

218:09:12select * from students LIMIT 0, 10005 row(s) returned0.328 sec / 0.000 sec