Explanation\_Q7 – JDBC and MySQL Setup

# 1. MySQL Installation

Download MySQL from the official website: https://dev.mysql.com/downloads/.  
Install MySQL Server and MySQL Workbench.  
Note the root user credentials (username: root, password: your\_password).

# 2. Creating the Database and Table

Open MySQL Shell or Workbench and execute the following SQL statements:  
  
CREATE DATABASE company;  
  
USE company;  
  
CREATE TABLE Employee (  
 id INT PRIMARY KEY,  
 name VARCHAR(100),  
 department VARCHAR(100)  
);

# 3. MySQL Connector (JDBC Driver) Setup

Download the MySQL Connector/J from: https://dev.mysql.com/downloads/connector/j/.  
Extract the zip file and locate the JAR file (e.g., mysql-connector-j-8.0.32.jar).  
In IntelliJ IDEA, go to File → Project Structure → Libraries → Add the .jar file.  
Also add it to your classpath or build configuration.

# 4. Java Code Overview

The Java code connects to MySQL, executes a SELECT query, and prints employee details.