05-01-2023

**Installation of MySQL**

1. Chrome -> MySQL download-> download (431mb)->

**Queries**

**Create**: **create** table table\_name;

**Insert**: **insert** into values () table\_name;

**Delete**: **delete** table\_name;

**Update**: **update** values set;

**Select**: **select** expression **from** table\_name;

**Select based on conditions**: **select** expression **from** table\_name **where** condition;

FILE HANDLING

1. FILE INPUT STREAM: is a class
2. FILE OUTPUT STREAM: is a class we’re storing data in form of file

PRESENT IN java.io package

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***JDBC:***

1. JDBC is an API.
2. JDBC is a technology.
3. Java Database connectivity.
4. JDBC is used to connect java application with database.
5. JDBC is present in jdk1.2.

**Steps of JDBC:**

* Import the package

1. Load / register driver. Required
2. Establish the connection. Mandatory
3. Establish the statement. Mandatory
4. Execute the statement. Mandatory

* Result set

1. Close the connection. Required.

MySQL installation steps:

* Double click on MySQL workbench
* Click custom
* Select products: Click MySQL server 3times…8.0
* MySQL server 8.0.31-x64
* Click applications: click MySQL workbench 2-3imes
* Click MySQL shell: 2-3 times
* Click next
* Installation page: click execute

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**Driver:** Driver is a software used to connect JDBC and a particular database.

Driver is provided by the database vendors.

Java JDBC Driver Database

**Plugin process**: used to add drivers into java files.

Jar files means classes and interfaces.

Jar files are present in MVN repository and websites.

1. Load/register the driver.
2. Load Drivers: with this we are loading the drivers into the particular classes.

Class.forName(“fully qualified driver name”);

Fully qualified driver name: com.mysql.cj.jdbc.Driver

Class is present in java.lang package

1. Register Drivers: with this we are registering the drivers into the particular classes.

DriverManager.registerDriver(obj o);

DriverManager is present in java.SQL package.

**To create a project, we follow for naming:**

**Project type (commercial or organisation). Company name. module (layer in the project). sub module. class/interface**

Layers: we create minimum 4 layers in every project

Dto

Dao

Service

Control

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1. Establish the connection: Connection between **JDBC** and **Driver.**

* **Connection** is an interface present in java.sql package.
* DriverManager.getConnection(String url, String username, String password);
* DriverManager.getConnection(String);
* DriverManager.getConnection(String, properties object);

Property object is File input stream object. (FIS fs=new FIS(“file name”))

* getConnection() is public and static , it accepts 3 String parameters : url,username,password.
* URL is jdbc: mysql://localhost:3306/DB name.

To create a java jdbc project:

* Open google: maven repository: search MySQL: MySQL connector j:download jar file
* Right click on project: select build path: configure build path: libraries: click module path: add external jars: add mysql connector jar:

1. Establish the statement:

* Statement
* PreparedStatement
* Callable statement

1. Execute the statement:

* Statement is an interface present in java.SQL package.
* execute (“”)/execute (): select and non select statements
* executeUpdate(“”)/executeUpdate(): only non select statements
* executeQuery(“”)/executeQuery(): only select statements.
* all methods are public and non-static.

1. close connection

* connection.close();

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In property pile we store data with the help of key and values.

File\_name.pro

* With the help of load kmethod, we load FIS into property object.

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* ResultSet is an interface and present in java.sql package.

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