Phase 2

SQL Self Learning using My SQL

JDBC: Connecting MySQL or Oracle database using Java Technologies.

We can insert, delete , update and retrieve records from database.

Hibernate : ORM (Object Relation Mapping ) : Advanced of JDBC to store, retrieve, update and insert record using Java Technologies.

Servlet and JSP : Using these two modules we can create the web application using Java technologies.

In Virtual open the terminal and type

mysql –u root –p

Simplilearn

mysql >

Database is use to the data in table format.

We can connect the mysql database two ways

1. Using command prompt
2. Workbench (GUI base ).

After connected mysql database using command prompt

show databases; This command is use to display all databases present in mysql database.

Create database databaseName;

create database maybank

use databasename; This command is use to switch in database.

Syntax to create the table

Employee --🡪Table

Three column id name salary

Number String float

create table tableName(colummName datatype, columnName datatype);

create table employee(id int primary key,name varchar(10), salary float);

command to insert the record in Table

insert into employee values(1,’Raj’,12000);

To view the records from a table

select \* from employee

retrieve the record using conditions

select \* from employee where id=1;

select \* from employee where name = ‘Raj’;

select \* from employee where salary > 14000;

update query

update employee set salary = 22000 where id=1;

delete query

delete from employee where id=1;

JDBC : Java Database Connectivity : JDBC is a API (Application programming interfaces) which help to connect the RDBMS (oracle or Mysql) using Java technology.

Relational Database Management System.

JDBC always throw checked exception. So we have to handle this exception using try-catch or throws.

1 we have to load the Driver : Driver is a pre-defined class provider by vendor in the form of jar file which help to connect the database.

Java provided pre-defined class Class. which contains pre-defined method forName() and it is a static method.

Class.forName(“driverName”);

com.mysql.jdbc.Driver :5.x

com.mysql.cj.jdbc.Driver :8.x

Establish the connection

Now we have to create the reference of PreparedStatement. Which provide set of method which help to do insert, delete, update and retrieve.