Creating database in MySQL

* create database dbname; - use the existing database.
* Use dbname; - create table in database.
  + create table tbname(field1 dtype, field2 dtype,……..); – show the structure of table created in database.
* desc tbname; - Insert the value in table of created database.
* insert into tbname values(v1,v2,v3….Vn); List all values existing in created table of database
* select \* from tbname; - List the value from table based on condition (where clause is used).
* select \* from tbname where condition; - select any value in table.
* update tbname set \_\_\_\_\_ where [condition]; -update any values in table based on condition.
* delete from tbname where [condition]; - Delete any values in table.
* alter; - Change the Structure of the table means adding column, deleting column etc.
  + `alter` command is used.
  + alter table tbname add columnname dtype; [for adding colunn]
  + alter table tbname drop column columnname; [for adding colunn]
* use [dbname]; // to select db
* desc [table]; //to see structure
* show databases;
* show tables;
* select \* from table\_name where name like ‘D%; - name starts with d char
* select \* from table\_name where name like ‘%D; - name ends with d char
* select \* from table\_name where name like ‘D\_\_; - name has 3 letters and starts with d
* select max(salary) from student;
* select min(salary) from student;
* select sum(salary) from student; // int(20);
* select \* from countries where nv\_nm like '\_o%';
* select \* from countries where tk\_count>=10000&&tk\_count<100000;
* Count() function MySQL –
  + select count(name) from students where branch="CSE"; - name[param] to be count
* Group by Clause;-
  + Write a query to display the list of all students who have taken ‘Robotics’ branch.
  + select \* from students where branch=”Robotics” group by branch.//
  + select branch from students group by branch;
  + Write a query to display the list of all students who have taken ‘CSE’ branch.
  + select count(name), branch from students group by branch;
  + select count(branch), branch from students group by branch order by Count(branch) asc;
  + select name from students order by name asc;
* Order by Clause – it used to to arrange the data either in ascending or descending order.
  + For ascending order ASC is used.
  + For descending order DESC is used.

select students.name, College.name from students join students4 on students.address=College.address where students.branch=”CSE”

select table\_name from information\_schema.tables where table\_schema="DATABASE\_NAME" and table\_name like "S%";

//getting selective tables from a database

Database Connectivity (Servlet to MySQL)

1. First Load the Driver using ;- Class.forName(“com.mysql.jdbc.Driver”);

// Class is name of predefined class. forName() method is used to load the driver.

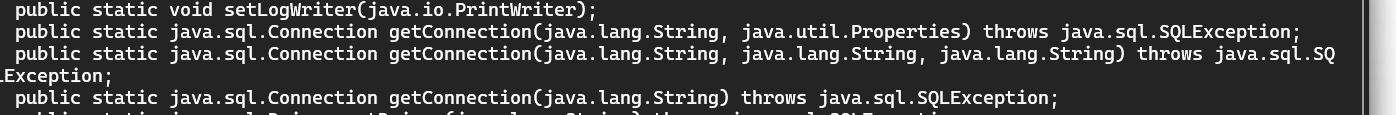
Driver name is -🡪 com.mysql.jdbc.Driver //javadatabaseconnectivity

1. Connection con = DriverManager.getConnection(“jdbc:mysql://localhost:3306/db\_name”,”root”,”root”);

Link, username,pwd // 3 arguments for getConnection method;

//javap java.sql.connection

DriverManager is class inside sql.



1. Create the statement for MySql query;

Javap java.sql.PreparedStatement interface

PreparedStatement pst = con.prepareStatement(string,integer);

Inside collection class

PreparedStatement pst = con.prepareStatement(“insert into tbname values(?,?,?,?)”); // jitne column utne Question mark

//javap java.sql.PreparedStatement

pst.setString(column\_num,“txt\_field1”); //

pst.setString(1,“txt\_field1”);

pst.setString(1,“txt\_field1”);

1. Execute the query using executeUpdate() method;

Int I = pst.executeUpdate();

If(i>0){

SoPln(“Record Inserted Successfully”);

}

Else {

SoPln(“Not Inserted..Try Again”);

}

//don’t write query inside param

Statement st = con.createStatement();

String query = “select \* from employee”;

ResultSet rs = st.exexuteQuery(query);

JSP stands for Java server Page.

* JSP is a server side technology which is used to create dynamic web application.
* It is an extension of Servlet.
* Tags used in JSP are:-
  + Scriplet tag <%....java Code….%>
  + Declaration Tag <%!.........Variable Declaration…..%>
  + Expression Tag- <%=….Expression….%> //No semi-colon – no out.println
  + Directive Tag - <%@.....%>
    - Some directive tags are – page,include etc.
* Less Code than servlet is required
* 9 implicit objects

Database connectivity(HTML + Servlet + JSP) :

* Login.html, Hello.java, Welcome.jsp will be created.
* If user name and password is correct as per record stored in database then we will redirect to Welcome.jsp page.