

## SESSION 17 PROGRAMS(JDBC)

To connect Java application with the MySQL database, we need to follow 4 following steps.

In this example we are using MySql as the database. So we need to know following informations for the mysql database:

1. **Driver class:** The driver class for the mysql database is **com.mysql.jdbc.Driver**.
2. **Connection URL:** The connection URL for the mysql database is **jdbc:mysql://localhost:3306/yourdb** where jdbc is the API, mysql is the database, localhost is the server name on which mysql is running, we may also use IP address, 3306 is the port number and yourdb is the database name. We may use any database, in such case, we need to replace the yourdb with our database name.
3. **Username:** The default username for the mysql database is **root**.
4. **Password:** It is the password given by the user at the time of installing the mysql database. In this example, we are going to use root as the password.

# Core Java Training

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## Program 1

```
import java.sql.*;

class MysqlCon{

    public static void main(String args[]){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/yourdb","root","root");
            //here yourdb is database name, root is username and password

            Statement stmt=con.createStatement();

            //Display Database records
            ResultSet rs=stmt.executeQuery("select * from emp");

            while(rs.next())
                System.out.println(rs.getInt(1)+ " "+rs.getString(2)+ " "+rs.getString(3));

            //Insert Record into Database Table

            stmt.executeUpdate("insert into emp765 values(33,'Irfan',50000);");
            int result=stmt.executeUpdate("update emp765 set name='Vimal',salary=10000 where id=33");

            //Delete Record From Database Table

            int result=stmt.executeUpdate("delete from emp765 where id=33");
            System.out.println(result+" records affected");

            con.close();
        }
    }
}
```

```
        }catch(Exception e){ System.out.println(e);}
    }
}
```

### SESSION 17 ASSIGNMENTS

1. Write a Program to create Student table with following columns:

**studId , studName,studDiv**

**Generate public getters/setters for above variables .**

**Now create a Main class .**

**In the Main class perform CRUD operations using JDBC**