JDBC(Java Database Connectivity): is a medium /interface between java application and database.

API(Application Programming Interface):

JDBC API consists of packages.

1. Java.sql.\*;
2. Javax.sql.\*

Driver – establishes communication between two external devices.

JDBC DRIVER: a group of packages wrapped in a jar file

ORACLE🡪 ojdbc.jar

MYSQL🡪 MySQL-connection.5.18.jar

Class.forName(“com.mysql.jdbc.Driver”) 🡪 MySql

Class.forName(“oracle.jdbc.driver.OracleDriver”); 🡪 Oracle

Driver Manager:

Static connection getConnection(url,username,password) 🡪 is a factory method with 3 parameters which returns a connection objects. It is a static method.

String url = “jdbc:mysql://localhost:3306/sampledb”;

String username = “root”;

String password = ”root”;

Or

String url =”jdbc:oracle:thin:@localhost:1521:xe”;

String username = “system”;

String password =”manager”;

Conenction con = DriverManager.getConnection(url,username,password);

Statement: it is an interface ( we can create reference)

Int executeUpdate(String) //insert /update/delete

ResultSet executeQuery(String) // select

Connection:

Statement createStatement(); // Static Factory Method();

Creating JDBC Application:

1. Import the packages
2. Register the JDBC package
3. Open a connection
4. Execute a query
5. Execute data from result set
6. Closing all connections