JDBC

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JDBC

Java DataBase Connectivity is an API that enables Java applications to **interact with databases**.

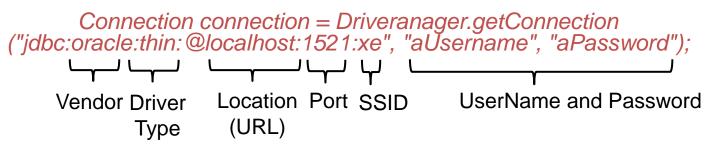
 We have one concrete class called DriverManager and 4 interfaces: Connection, Statement, ResultSet, DatabaseMetaData.

JDBC

- DriverManager manage the drivers and setup JDBC for use by passing the database vendor, Database location (URL), Username & Password.
 - So normally we would say something like:

DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

Connection is used to stablish the connection and the link between Java application and the database.



ResultSet is the data from a query. So if we do select, it returns resultset.

SQL command types

Data Definition Language (DDL)

Data Manipulation Language (DML)

Data Query Language (DQL)

Data Control Language (DCL)

Create

Insert into

Select

Grant

Drop

Update

Revoke

Alter

Delete

Statement

We can use these 3 methods to run on the statement object:

statement.execute(String query) use for DDL, like Create, Drop.

statement. executeUpdate(String query) use for DML, like Insert, Delete, Update.

 statement. executeQuery(String query) use for DQL, like Select.

