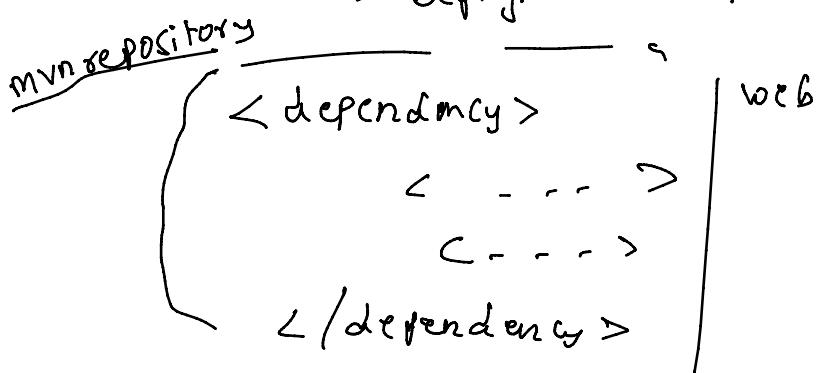


Maven:
 ↳ build & dependency management tool.
 → external jar

Select maven project:

Pom.xml

- ↳ Program Object Model
- ↳ Deployment descriptor.



basic: → archetype-Querstart
 → mvc
 < - - - >

JUnit 4:

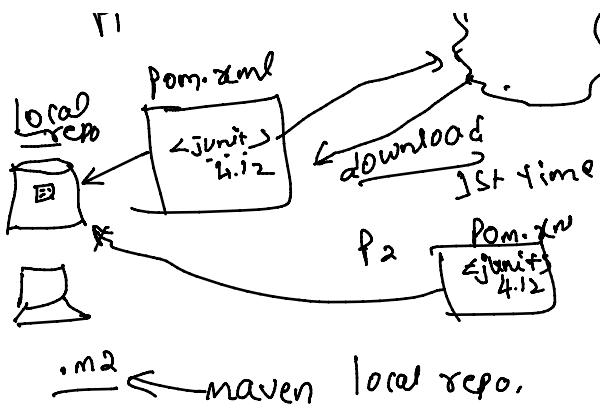
Mvn repository.com

<dependency>
 <dependency> ,
 - - - 2

.

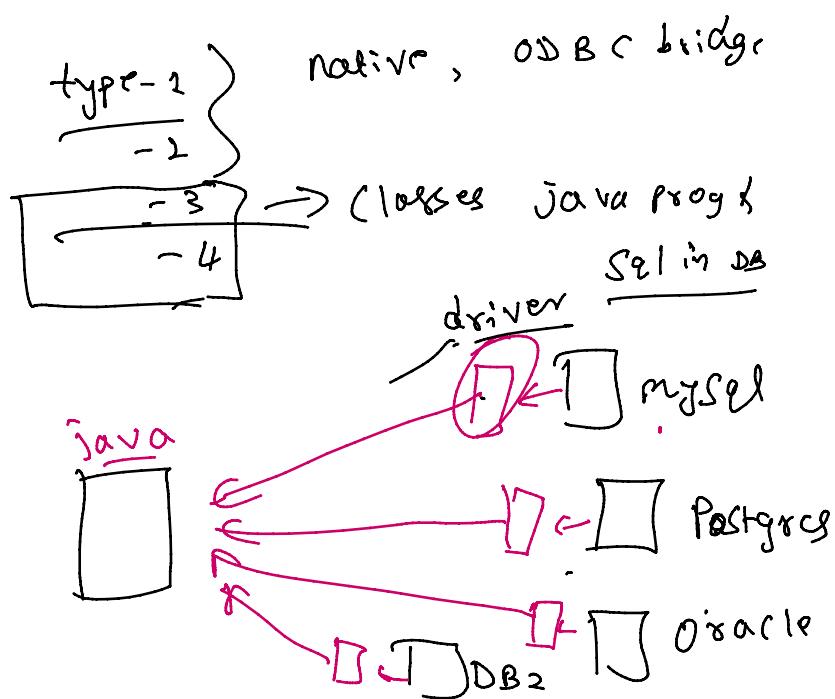
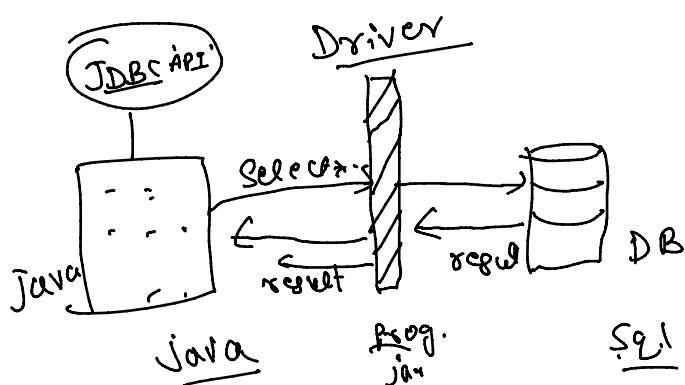
</dependencies>





JDBC

: Java DataBase Connectivity:



JDBC API's

- 1) Driver → load driver
- 2) Connection → connect to DB

- 1) Connection → connect to DB
- 2) Statement
- 3) Prepared Statement } execute Query
- 4) Callable Statement }
- 5) ResultSet → handle result sent by DB
- 6)
- 7)

JDBC Process

- 1) Load the Driver:

```
→ Class.forName ("com.mysql.jdbc.Driver");
```

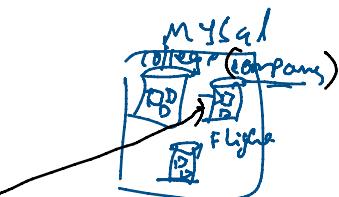
↓
jars

- 2) Connect to a DB:

connection object

```
DriverManager.getConnection (username, password);
```

username: jdbc:mysql://localhost:3306/company
 password: root.



- 3) Statement Creation

Create Statement, which is used to execute queries

```
Statement stat = connection.createStatement();
```

- 4) Execute Query:

Result Set = stat.executeQuery ("Select * from employee");

~~Request~~ = stat.executeQuery("select * from employee");

→ DQL - Definition - Create table..
→ DML - update, insert, alter, delete
→ DQL = Select

5) close the connection:

conn.close();

DB: company

Table : employee

employee-id	name	designation	salary	yearOfJoining

insert into employee values

(1001, 'Ram', 'Manager', 15000, 2017); + +

insert (xyz, 1001)

id	name	designat	Sal	yoj

A hand-drawn musical staff consisting of five horizontal lines and four vertical bar lines. The bottom line is slightly curved upwards towards the right. On the fourth line from the left, there are two short horizontal dashes. A small bracket is positioned under the second line from the left.

self & * from employer
use table

DDL - method execute → boolean
true / false.

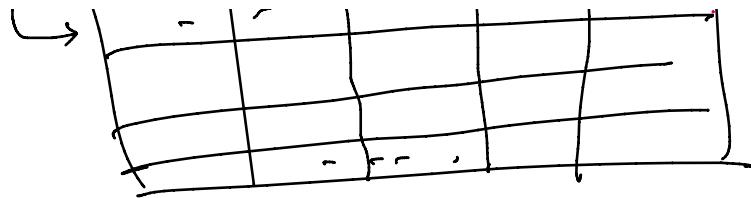
DML → executeUpdate() → int
→ no of rows affected.

* PPL joined in 2018,
designation to be changed to
"Architect"

update
set
where
empbyer
designation = 'Architect'
year-of-joining = 2018;

("Select * From employee");

ResultSet = executeQuery
ResultSet



resultset e.g. ---(column) / (no)
 In
 String
 float

rs.getInt("employee-id")

JDBC - assignment

* Create Table insurance with following attributes.

ins-name	ins-id	sum	ins-type
"HDFC"	15001	3,00,000	"Health"
LIC	15005	5,00,000	"Term"

* insert 4-5 entries
 * display all the data

* List all "Term" insurances

* List the insurances Order by their sum ascend.

* disp. insurance whose sum > 3,00,000

* Increase all health insurance sum by 20%.