## Pojs & Hibernate Introduction keynous. => Mavin => Pojo => Plain oldjava object } Pojí => Plain old java iningale } launch extends Helphround Launch class not a poso y @ scarile class Plane class FighmiPlane (a) Data class Employe و =y Hibmate Framework =y Terminologiest Persistance :-

Process of storing data for long term which can also be managed easily ==> Persistence

To achieve this we have used:

- 1. File Handling // IO operation ==> (Store data in HD) ==> java.io.\*;
- 2. Database(JDBC) ==>(Store the data in table within DBMS)==>java.sql.\*;

Persitance Store

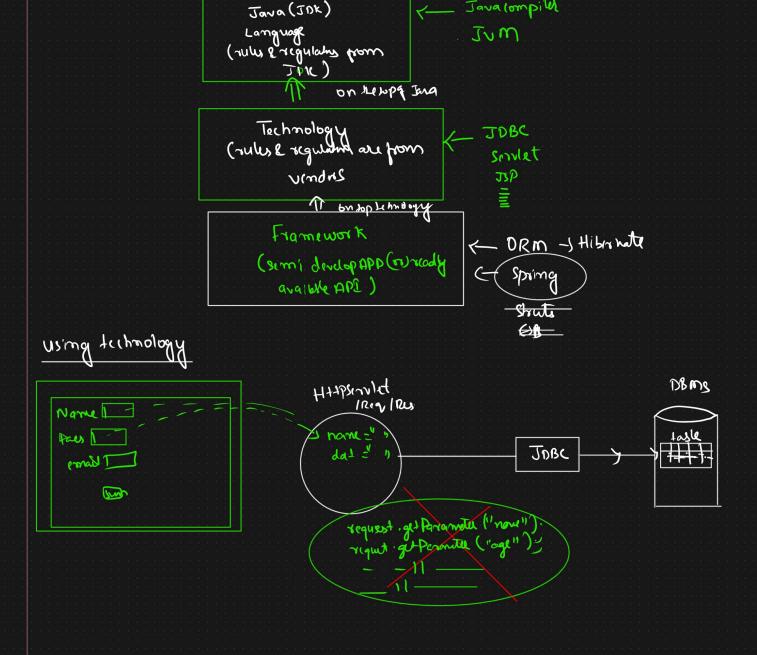
Its a place where data will be stored or saved and managed ==> (Files in HD, MySQL, PostgreSQL, Oracle ....)

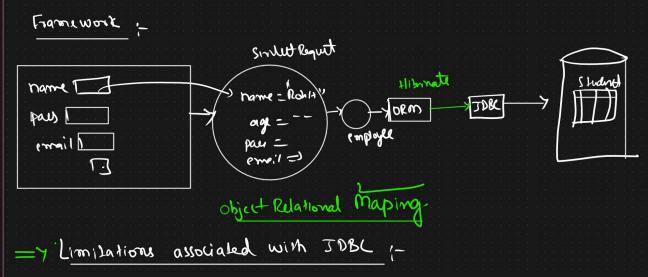
Persistence data ==> The data which we have stored or saved ==> DB tables with records....

Persistence Operation==> Operations which we perform on persistence store. (CRUD) Insert, update, delete, select)

Persistence Logic==> The code/logic which we write to perform persistence operation (IO ==> Streams class . Serialialization ...)
(JDBC code, hibernate code, spring orm, spring jdbc, spring datajpa....)

Persistence technology/framework==>
The tech/framework which we use in order to perform persistence logic exam==> JDBC
Hibernate
Spring .......





==> We need to write SQL queries by following the syntax of db.

(Strong knowledge on SQL is also needed)

- ==> There is lot of boilerplate code ==> A code which repeats multiple times in a project with same or small changes (Same steps we have to follow for every operation)
- ==>JDBC throws only one Exception which is SQLException==> We donot have detailed Exception hierarchy for different problem
- ==>While closing the jdbc connection we need to analyze code properly to avoid null pointer exception.
- ==>JDBC ==> Local Transaction ==> We do not have proper global transaction management.
- ==>Java ==> OOPs ==> Object.

Using JDBC we cannot send Object to database ==> Queries expects us to pass values not Object.

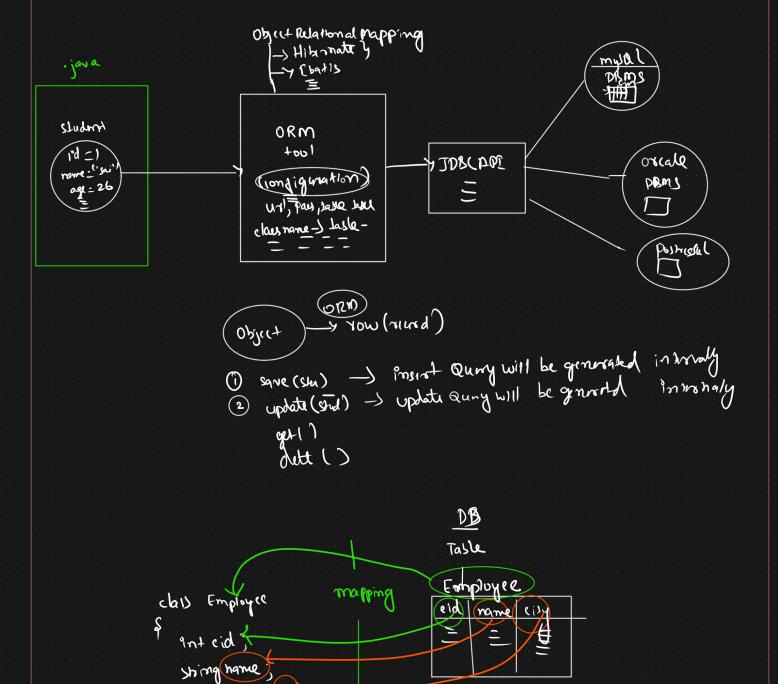
==> JDBC supports only positional Parameters , its difficult for us to inject the values==> It doesn't support named parameters.

"insert into student (id, name, age) values (?,?,?,?)"

"insert into student (id, name, age) values (:id,:name,....)" but we cannot use this in JDBC

==>While developing persistence logic we cannot make use of Java important feature (Inheritance, polymorphism, composition ......)

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