

02/08/2022

Java Notes Day9

Day 9

1. SQL - Database Management
 - > Printing
 - > Updating
 - > Seleting
2. Reflection

File handling

- Object serialization

Object

|

| |
file Database
| |
serialization Persistence

Database software

|MySQL/HSQL

Database driver - .jar file

|
Java Program to connect with the Db
|
Interact with the Db

Download HSQLdb from the internet

1. hsqldb.org
 - download the db 2.6.1
2. extract the zip
3. goto the lib folder of the extracted folder
4. and start the cmd in it.
TO START THE HSQLDB SERVER ->
 java -cp hsqldb-jdk8.jar org.hsqldb.server.Server --database.0
file:mydb --dbname.0 xdb
5. and star the another cmd in it.
 TO START THE HSQLDB INTERFACE -> java -jar hsqldb-jdk8.jar
6. once the interface appread, select the TYPE : engine server
 URL : jdbc:hsqldb:hsq://localhost/xdb
 xdb as the database name at the end of the URL
7. try any table creation process
 create table mydept120
 (
 deptno int,
 deptname varchar(20),
 loc varchar(20)
)
 select above create table command paragraph

Object

```
Class getClass()  
{}
```

```
Flight obj1 = new Flight();
```

```
Class theClass = obj1.getClass();  
theClass.getName();  
theClass.getMethods();
```

```
Method m1[] = theClass.getMethods();
```

for each --> print the methods

```
Constructor m1[] = theClass.getConstructors();
```

```
Parameter p1[] = theClass.getParameters();  
p1.getParameterCount();  
p1.getType();
```

getClass() -->

Assignment

Make one table as student, with roll number, student name, birthdate, physics, chemistry, maths, total, grade

Perform INSERT, UPDATE, DELETE, SELECT AND SELECT ALL RECORDS OPERATIONS OVER IT USING THE JDBC

```
CREATE TABLE STUDENTSS  
(  
    STROLLNO INT PRIMARY KEY,  
    STNAME VARCHAR(20),  
    STBDATE INT,  
    STPHY INT,  
    STCHEM INT,  
    STMATHS INT,  
    STTOTAL INT,  
    STGRADE CHAR  
)
```

