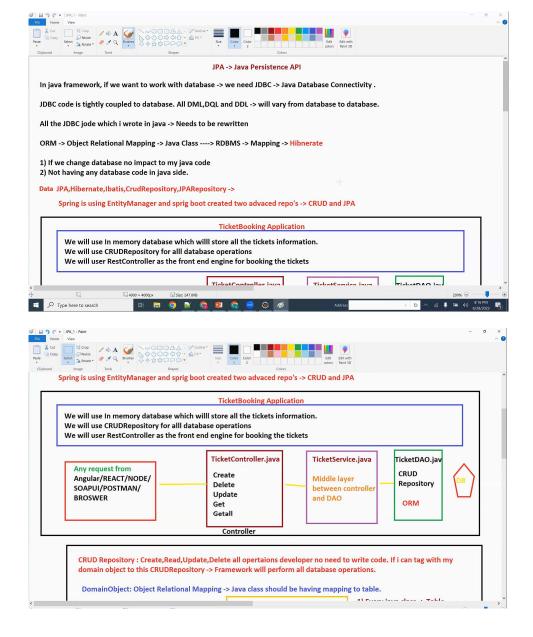
## JPA - Java Persistence ApI

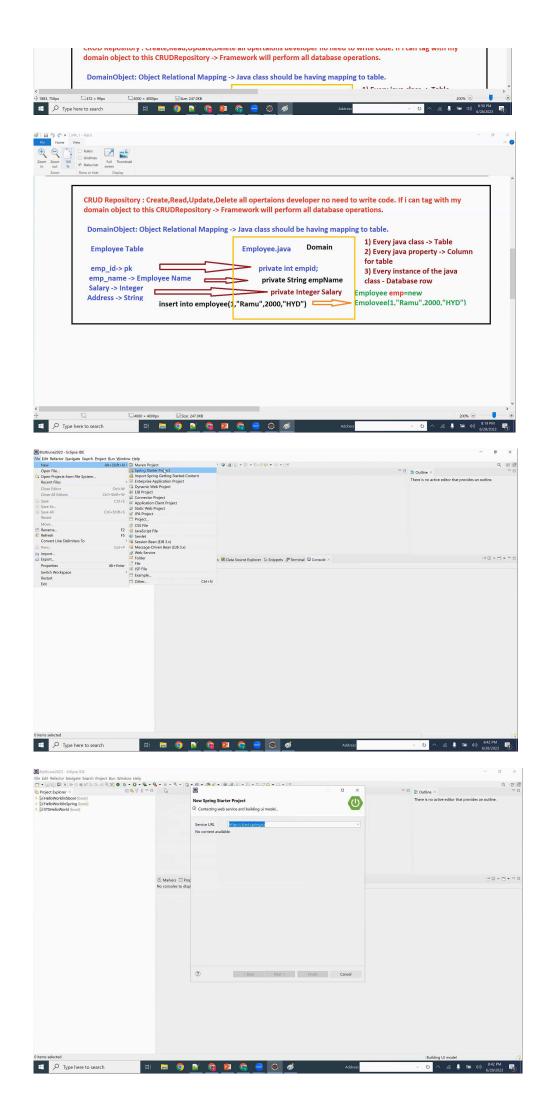
-----

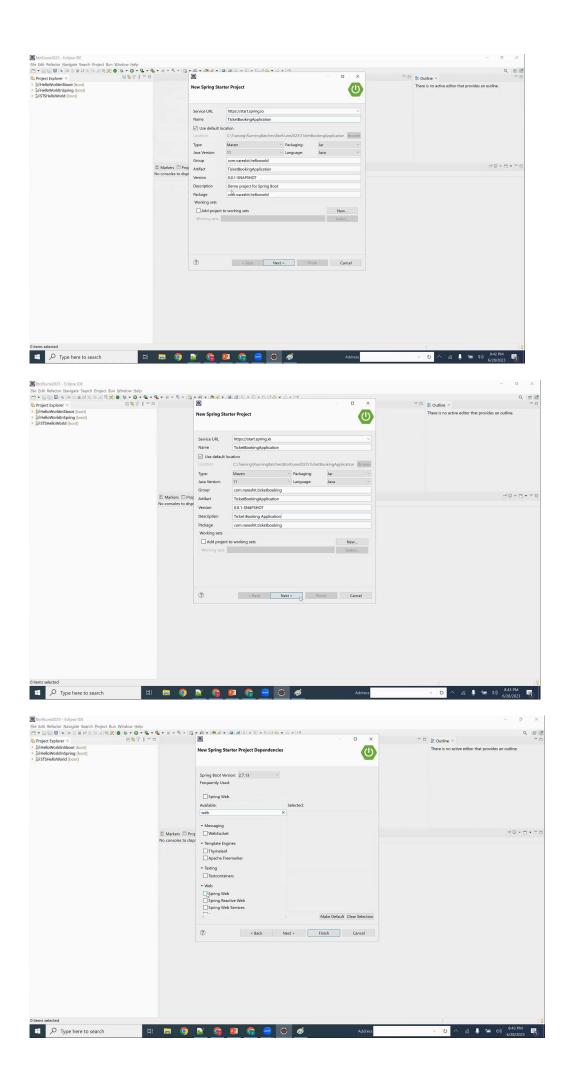
- Persistence --> storing the data permenantly
- In Java, we use JDBC API to store, retrive, manipulate the data from java program to database.
- then, why we need of JPA or learning of it?
- JPA is a framework of java. which is used for saving the data.
- with JPA we can save the data, retrieve the data.
- JDBC is typically tightly coupled to database. what ever the jdbc code was written, that has the tightly coupled
- JPA is an ORM Tool.
- ORM --- Object Relational Mapping.
- to achieve the loosely coupled nature, ORM framework is used.

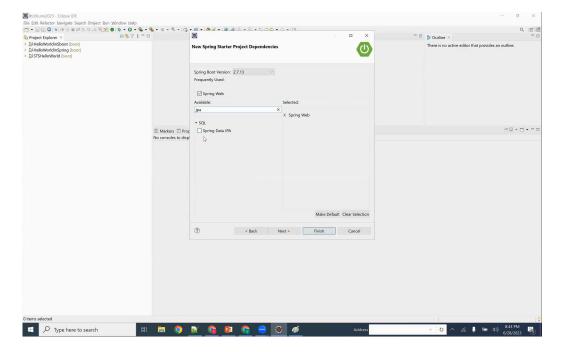
In ORM there are 3 key principles are there, Developer no need to write JDBC Code.

- every java class is a table.
- every property present in a class are columns for the table.
- every instance of the class are the rows of the table.

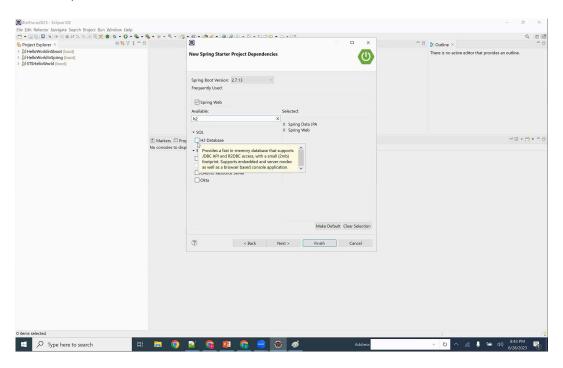


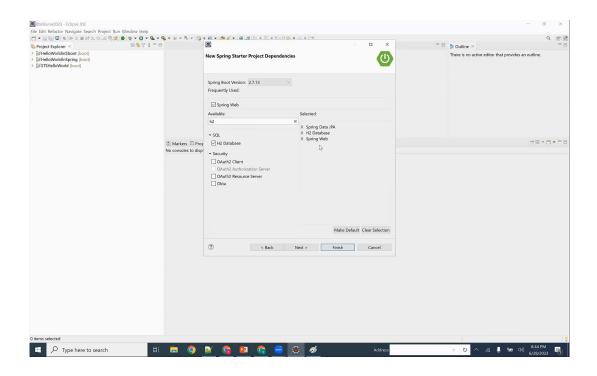


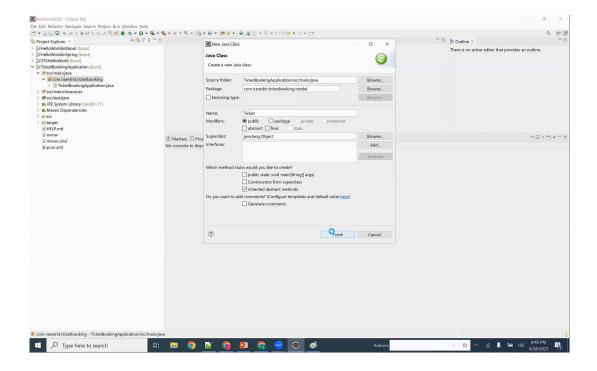




in memory database -- h2 Database.







we need to write Annotation "@Entity"

- "@Entity"
- This annotation is used to create a table in db.
- This annotation is mandatory
- when we use the above annotation, then we making the class to consider it as a Entity Class /Model Class /Domain Class / Database Class
- when we write the above annotation, we are making java class to consider it is a table
- This will create a sql statement with "create table..."

## @Table(name="table\_name")

- this annotation used to customize the table name
- this annotation is optional

Every Java Property will be a table column name. by default java propery name will be the column name @Column(name="column\_name")

- this annotation is used to customize the column name
- this annotation is Optional

## @Id

- this annotation is used to create primary key

```
### Comparison of the Control of the
```

```
### Ticketjawa ×

15 * @Table ==> Optional ==> Customizes the table name

16 *

17 * Every Java Property will table column

18 * By default Java property name will be column name

19 *

20 * @Column is also optional which will customizes the column

21 *

22 */

23

24

25 @Entity

26 @Table(name = "tbl_ticket")

27 public class Ticket {

28

@Column(name = "passenger_name")

private String passengerName;

31

32

33 * @Column(name="source_station")

34  private String sourceStation;
```

