

Regeneration Coding School

Team 1

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Demo Scenario

User can use the programme by his own but here is example of use

Functionality 1

User have choose menu 1 use file input. There is validation in user input with regular expression so if you give plate's number like **abc-1234** it capitalize **ABC-1234** if you give **A2B-1234** this is not a valid plate so it ask again a input same with **ABC-12W4** or **ABCD-123** or **ABC-0023** (acceptable number are 1000-9999)

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- 1st element in list **HKE-8867** has expire at 30/03/2017
- Last element in list **ITK-7338** has expire at 22/7/2017
- Radom element in list **EKE-4621** is active till 21/10/2017
- Not in my list **KEI-2376** not even exist but is a valid plate

Export option: CSV file or console

Functionality 2

User have choose menu 2 use file input. User give an integer (whole number) to add in days and check for today till today + input number. There is validation that you give me a whole number ab, a1, a1 are not valid.

Let's say today is 30/9/2017

- 1 -> 30/9/2017 – 1/10/2017 and this list is empty.
- 25 -> 30/9/2017 – 25/10/2017
- 78 -> 30/9/2017 – 17/12/2017 what about if the user give a large number just he takes a lager list.

Export option: TXT file or console

Functionality 3

User have choose menu 3 use database. So it take the resource from database.

In our database there are plate number like **XKT-2348 XKT-5518 XKT-3855** who have the first chars same and as you see with output you see they will be shorted, In output there is the vehicle number, Tax number or the owner and expire insurance date.

Export option: CSV file or console

Functionality 4

User have choose menu 4 use database. First user give a double for the amount of money must be number owners have to pay for 1 vehicle.

- **173 757 962** 1 vehicle with active insurance so he has not to pay anything.
- **183 457 961** has 2 vehicles 1 has expire at 20/5/2017 and the other **is about to expire 1/10/2017.**
- **123 457 948** total have 4 vehicles end 3 of them insurance have expire.
- **385 677 638** this is not a record in our database so he has not expire vehicles.

Export option: TXT file or console

How to create a database in vagrant using MySQL

1. Open cmd.
 2. User cd command to navigate to the folder where is vagrant
 3. Do vagrant up and vagrant ssh to connect to out system
 4. Use command «mysql -u root -padmin123» where root is username and admin123 password
 5. **Use SQL queries to make our Database or use the file «Database.sql»**
- ❖ CREATE DATABASE VehicleInsuranceProject CHARACTER SET utf8;
 - ❖ SHOW DATABASES;
 - ❖ USE VehicleInsuranceProject;
 - ❖ CREATE TABLE Owners (OwnerID int NOT NULL AUTO_INCREMENT,TaxNo INT(9) NOT NULL, PRIMARY KEY (OwnerID));
 - ❖ CREATE TABLE Vehicles (VehicleID int NOT NULL AUTO_INCREMENT, PlateNumber VARCHAR (8) NOT NULL,OwnerId int, ExpireDate DATE NOT NULL, PRIMARY KEY (VehicleID),FOREIGN KEY (OwnerId) REFERENCES Owners(OwnerID));
 - ❖ INSERT INTO Owners (TaxNo) VALUES (818386667); //id 1
 - ❖ INSERT INTO Owners (TaxNo) VALUES (173757962); //id 2
 - ❖ INSERT INTO Owners (TaxNo) VALUES (183457961); //id 3
 - ❖ INSERT INTO Owners (TaxNo) VALUES (114675923); //id 4
 - ❖ INSERT INTO Owners (TaxNo) VALUES (123467948);//id 5
 - ❖ Select * from Owners;
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("YTX-2356",'2017-6-23',1);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("XKT-2348",'2017-12-25',2);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("YTK-2896",'2017-5-20',3);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("YTX-1315",'2017-10-25',1);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("ATK-2346",'2017-11-15',5);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("KYX-2855",'2017-8-23',4);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("YKI-1678",'2017-9-26',5);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("ATI-5526",'2017-9-11',1);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("ITX-8865",'2017-8-15',5);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("XKT-5518",'2017-10-1',3);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("KIM-3356",'2018-3-21',4);
 - ❖ INSERT INTO Vehicles (PlateNumber,ExpireDate,OwnerId) VALUES ("XKT-3855",'2017-6-22',5);

❖ Select * from Vehicles;

```
C:\WINDOWS\System32\cmd.exe - vagrant ssh
12 rows in set (0.00 sec)

mysql> select * from Owners;
+-----+-----+
| OwnerID | TaxNO      |
+-----+-----+
| 1       | 818386667  |
| 2       | 173757962  |
| 3       | 183457961  |
| 4       | 114675923  |
| 5       | 123467948  |
+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT * FROM Vehicles;
+-----+-----+-----+-----+
| VehicleID | PlateNumber | OwnerID | ExpireDate |
+-----+-----+-----+-----+
| 1         | YTX-2356   | 1       | 2017-06-23 |
| 2         | XKT-2348   | 2       | 2017-12-25 |
| 3         | YTK-2896   | 3       | 2017-05-20 |
| 4         | YTX-1315   | 1       | 2017-10-25 |
| 5         | ATK-2346   | 5       | 2017-11-15 |
| 6         | KYX-2855   | 4       | 2017-08-23 |
| 7         | YKI-1678   | 5       | 2017-09-26 |
| 8         | ATI-5526   | 1       | 2017-09-11 |
| 9         | ITX-8865   | 5       | 2017-08-15 |
| 10        | XKT-5518   | 3       | 2017-10-01 |
| 11        | KIM-3356   | 4       | 2018-03-21 |
| 12        | XKT-3855   | 5       | 2017-06-22 |
+-----+-----+-----+-----+
12 rows in set (0.00 sec)

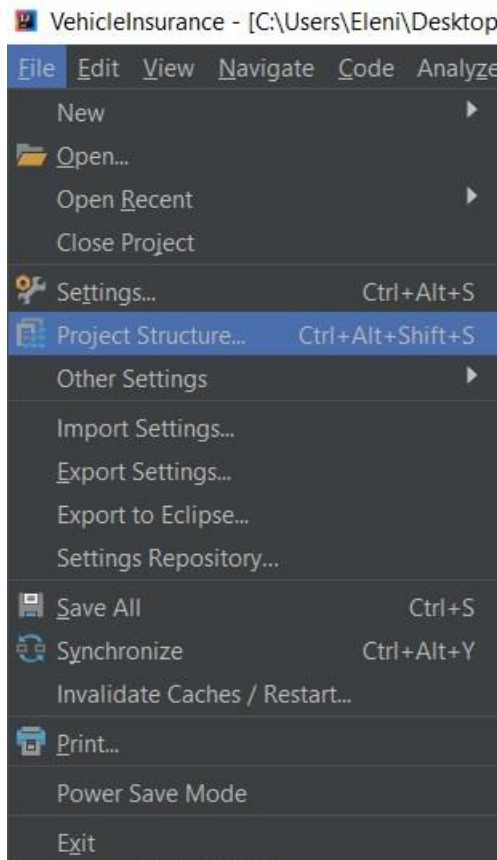
mysql> _
```

Fix driver problem in IntelliJ with SQL driver in java.

When you want to connect a database with a java project you need to use MySQL package there might be some driver issue so how that can be fixed.

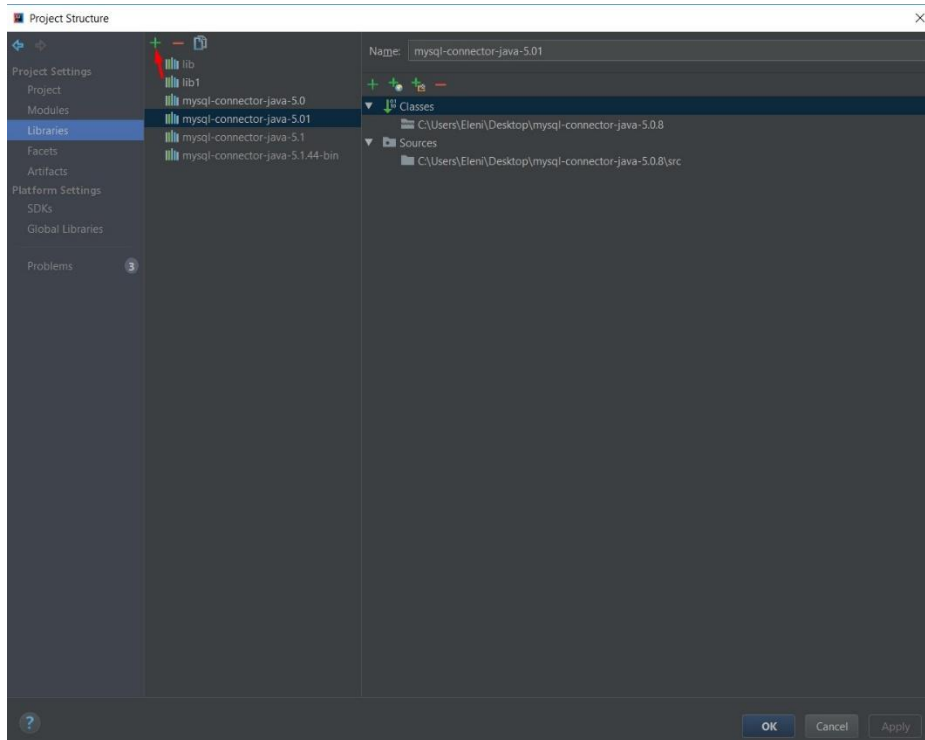
1. First of all you have to download driver file from <https://dev.mysql.com/downloads/connector/j/5.0.html>
2. After you download this file extract it in your preference place ex. Desktop
3. Then you have to add this folder to your project structure.

Choose your project folder menu bar -> File -> Project Structure



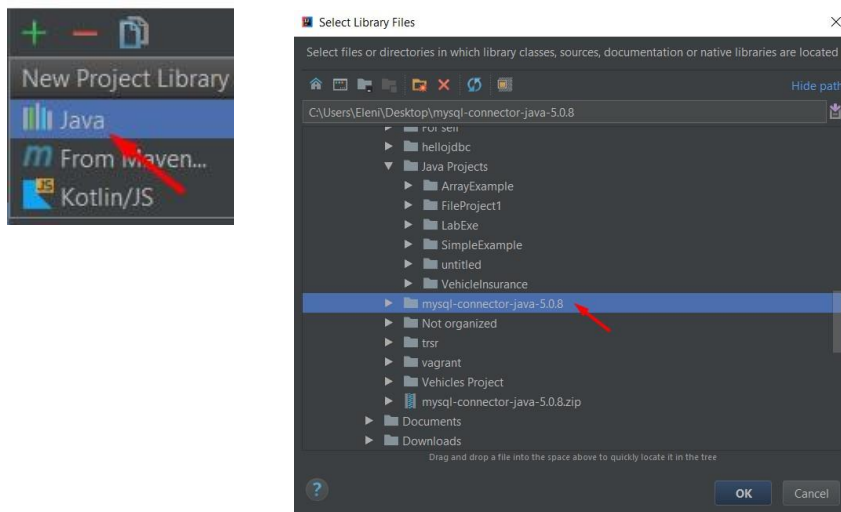
Shortcut: Cntr+Alt+Shift+S

4. Then in the next window



User can add in libraries using the green plus bottom

5. Add a java library for the destination you have choose to extract the zip file



For more help see the video

<https://www.youtube.com/watch?v=37Wv7taksjk>

