# **Normalization**

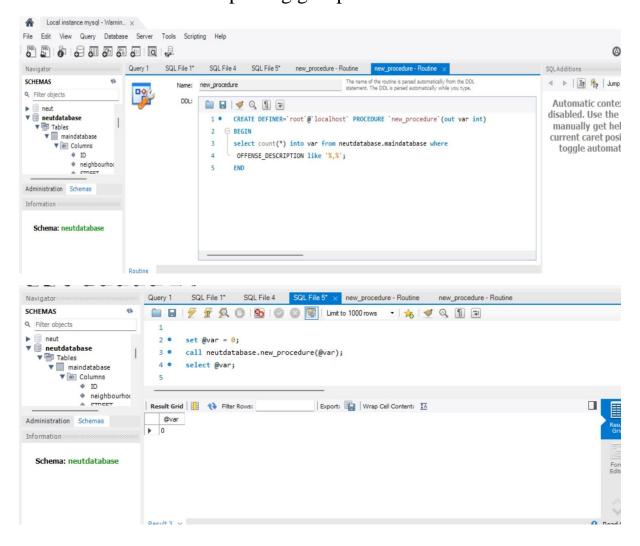
### **Topic Name- NEU Transportation System**

In the below process, we have checked whether our tables are in 1NF, 2NF and 3NF.

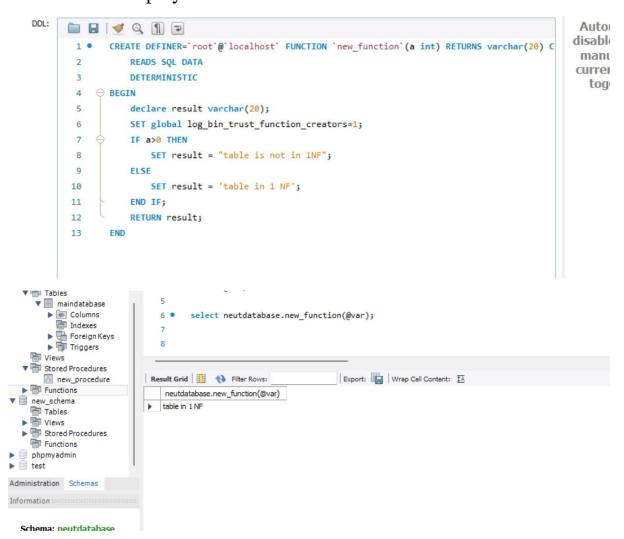
#### 1NF:

Here, in order to check whether our table is in 1NF or not we have perfored the following steps –

<u>Step 1</u> – We have created a stored procedure named "new \_procedure" in order to check whether the values in each column are atomic and there is no repeating groups.



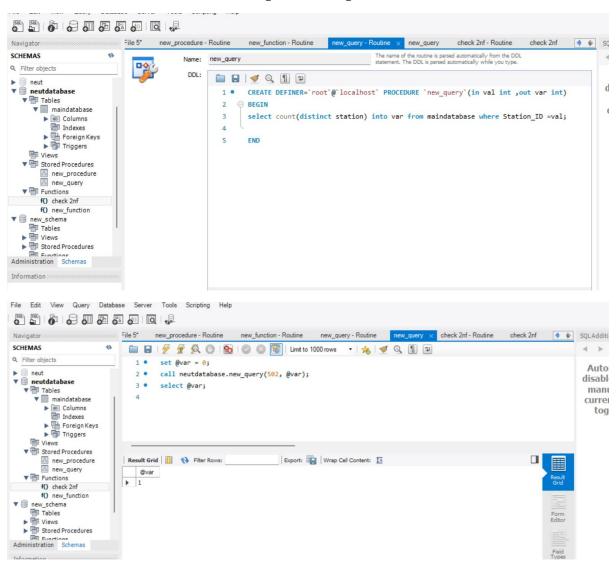
**Step 2-** Then we have created a function named "new\_function" to check and display the result .



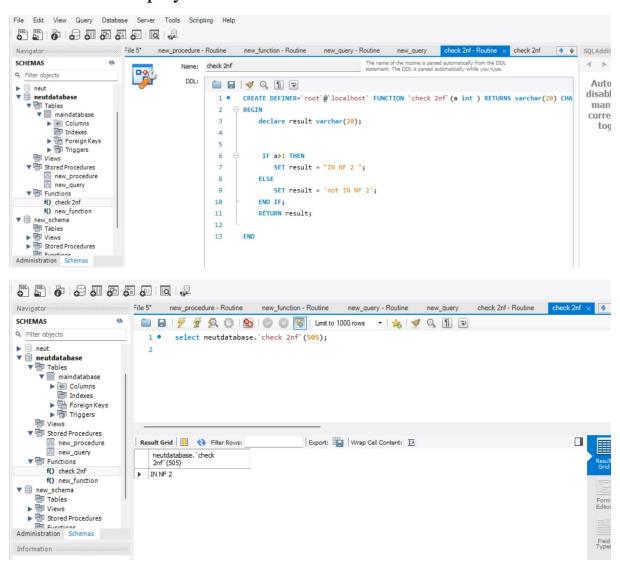
# **2NF:**

Here, in order to check whether our table is in 2NF or not we have perfored the following steps –

<u>Step 1</u> – We have created a stored procedure named "new\_query" in order to check that there is no partial dependencies.



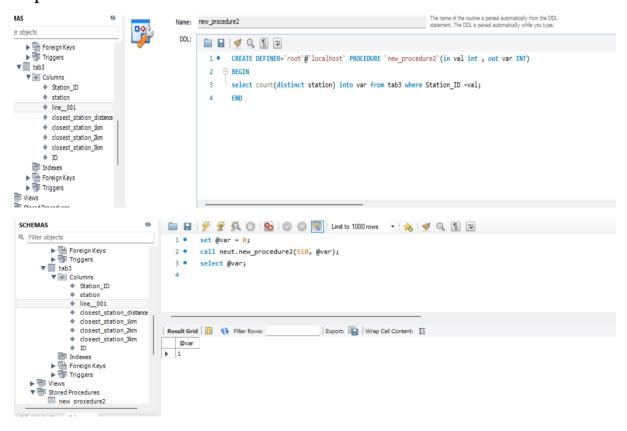
# **Step 2-** Then we have created a function named "check 2nf" to check and display the result .



# **3NF:**

Here, in order to check whether our table is in 3NF or not we have perfored the following steps –

<u>Step 1</u> – We have created a stored procedure named "new \_procedure2" in order to check that there is no transitive dependencies.



**Step 2-** Then we have created a function named "checknf3b3" to check and display the result .

```
SCHEMAS
                                             Foreign Keys
Triggers
Triggers
Triggers
Triggers
Triggers
Triggers
Triggers
                                                                    CREATE DEFINER=`root'@'localhost' FUNCTION 'checknf3b3'(a int ) RETURNS varchar(20) CHARSET utf8mb4
                                                                                  DETERMINISTIC

⊕ BEGIN

   ► 📅 Views
▼ 📅 Stored Procedures
                                                                                  SET GLOBAL log_bin_trust_function_creators = 1;
                                                                             IF a<1 THEN
           new_procedure2
top_STREETH
                                                                             ELSE
                                                                              SET result = ' IN NF 3 ';
            top_STREETSSS
            top STREETW
            top_STREETWW
           top_STREETX
```

