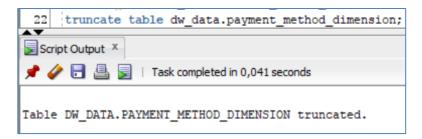
# Lab report #5 Sadovskaya Veronika

GitHub: https://github.com/sdveronika/DataMola22

# Task 1 - Create Packages for Reload Dimension from SA\_\*

1) Use DBMS\_SQL.TO\_REFCURSOR Function

Truncate table dw\_data.payment\_method\_dimension that was created in Lab 4 unit 2:

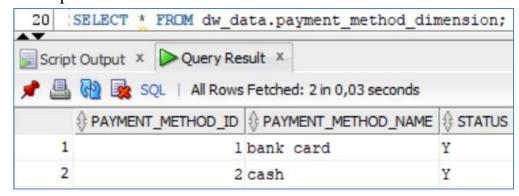


Create new procedure for moving data from cleansing layer to DW layer using the example of payment\_method\_dimension:

```
21
         END load_CLEAN_PAYMENT_METHODS_DW;
 22
        PROCEDURE load_CLEAN_PAYMENT_METHODS_DW_with_to_refcursor_func
 23 ⊟
 24
 25
         BEGIN
         DECLARE
 26 ⊟
 27
            cursor_id NUMBER (25);
           cur count NUMBER (38);
           quary_cur VARCHAR2(2000);
TYPE ref_crsr IS REF CURSOR;
 29
 30
           ref_cursor ref_crsr;
            TYPE type_rec IS RECORD
 32
            ( payment_method_name VARCHAR2 ( 100 )
 33
             , status char(1)
 34
             , payment_method_id INT
 35
 36
            );
 37
            one_record type_rec;
 38
          BEGIN
 39
 40
          quary_cur:= 'SELECT payment_method_name, status, payment_method_id FROM
Script Output X Query Result X
📌 🧽 🔡 📕 | Task completed in 0,589 seconds
Package Body PKG_ETL_PAYMENT_METHODS_DW compiled
```

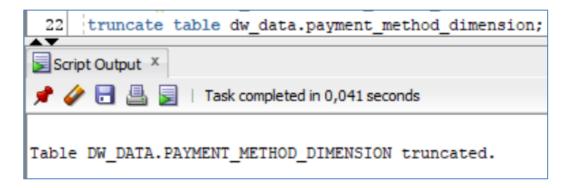
## Execute new procedure:

Select data from table dw\_data.payment\_method\_dimension that was filled using the new procedure:



### 2) Use DBMS\_SQL.TO\_CURSOR\_NUMBER Function

Truncate table dw\_data.payment\_method\_dimension that was created in Lab 4 unit 2:



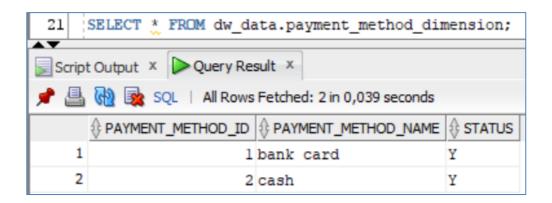
Create new procedure for moving data from cleansing layer to DW layer using the example of payment\_method\_dimension:

```
PROCEDURE load_CLEAN_PAYMENT_METHODS_DW_with_to_cursor_number_func
 73 🖃
 74
        AS
       BEGIN
 75
         DECLARE
 76 □
          TYPE curtype IS REF CURSOR;
 78
          src_cur curtype;
          curid NUMBER;
 79
          desctab DBMS_SQL.DESC_TAB;
          colcnt NUMBER;
 81
 82
          payment_method_name VARCHAR(20);
          status CHAR(1);
          payment_method_id NUMBER;
 84
 85
          sql_stmt VARCHAR2(2000);
 87
          BEGIN
          sql_stmt:= 'SELECT payment_method_name, status, payment_method_id FROM
                             (SELECT source.payment_method_name AS payment_method_name,
                              source.payment method status AS status.
Script Output X Query Result X
📌 🧽 뒴 🚇 闄 | Task completed in 0,775 seconds
Package Body PKG_ETL_PAYMENT_METHODS_DW compiled
```

#### Execute new procedure:

```
1 BEGIN
          pkg_etl_clients_dw.load_CLEAN_CLIENTS_DW;
  2 🗏 ---
           pkg_etl_restaurants_dw.load_CLEAN_RESTAURANTS_DW;
  3
     -- pkg_etl_employees_dw.load_CLEAN_EMPLOYEES_DW;
     -- pkg_etl_dishes_dw.load_CLEAN_DISHES_DW;
          pkg_etl_payment_methods_dw.load_CLEAN_PAYMENT_METHODS_DW;
           pkg_etl_gen_periods_dw.load_CLEAN_GEN_PERIODS_DW;
           pkg_etl_transactions_dw.load_CLEAN_TRANSACTIONS_DW;
          pkg etl payment methods dw.load CLEAN PAYMENT METHODS DW with to refcursor func;
          pkg_etl_payment_methods_dw.load_CLEAN_PAYMENT_METHODS_DW_with_to_cursor_number_func;
 10
 11
Script Output X
📌 🥟 🔡 🚇 📘 | Task completed in 0,06 seconds
PL/SQL procedure successfully completed.
```

Select data from table dw\_data.payment\_method\_dimension that was filled using the new procedure:



#### 3) Use Execute Immediate with Bind Parameters

Execute Immediate was used back in lab 4 when creating a layer, when we needed to first clear the table before populating it. Example (DW\_CL/clients/pkg\_etl\_clients\_cl\_imp):

```
AND city IS NOT NULL

AND client_status IS NOT NULL;

BEGIN

EXECUTE IMMEDIATE 'TRUNCATE TABLE dw_cl.cl_t_client';

FOR i IN c_v LOOP

INSERT INTO dw_cl.cl_t_client(

first name
```

### Task 2 - CREATE Monthly Reports Layouts

Using the model, the total number of dishes sold for each item is calculated for the year and for the entire time the restaurant has been operating.

