**U2.Exit task**

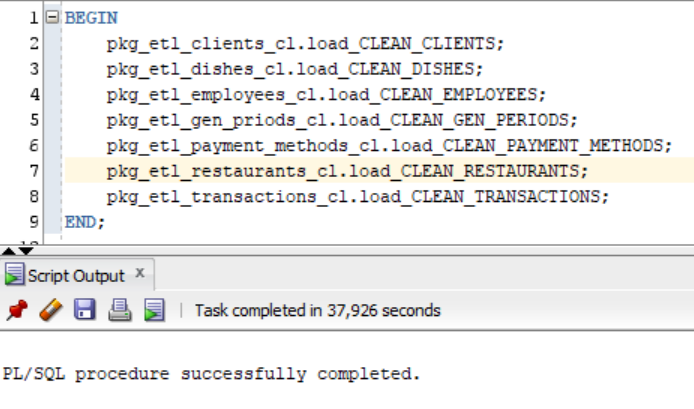
**Sadovskaya Veronika**

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

**Task 1 - Test Star Data**

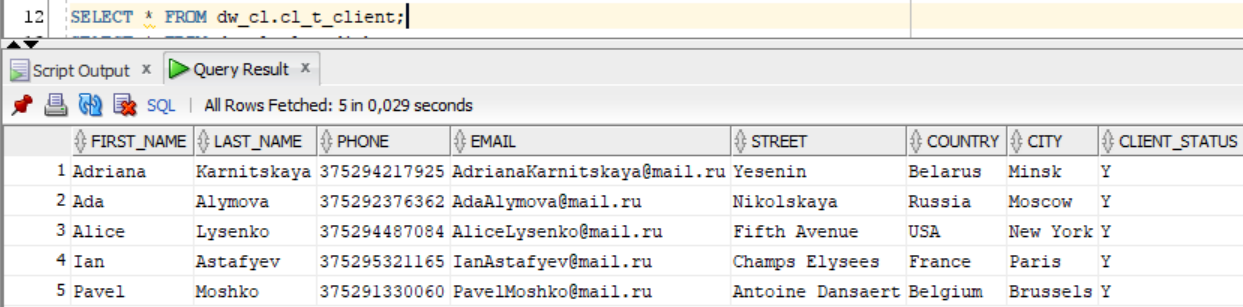
**Cleancing level:**

Re-run the script with procedures that fill tables with data from sa level to dw\_cl:

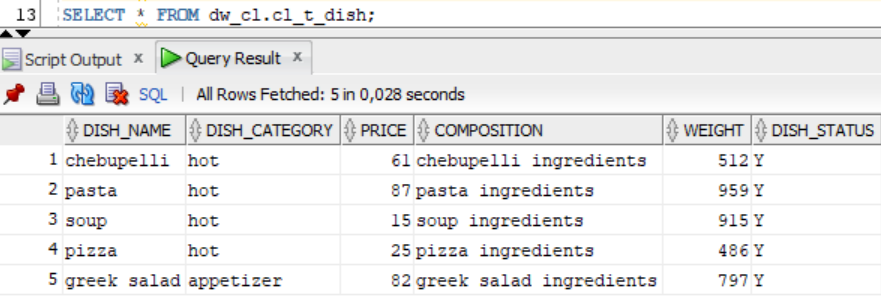


Selects from tables on dw\_cl level:

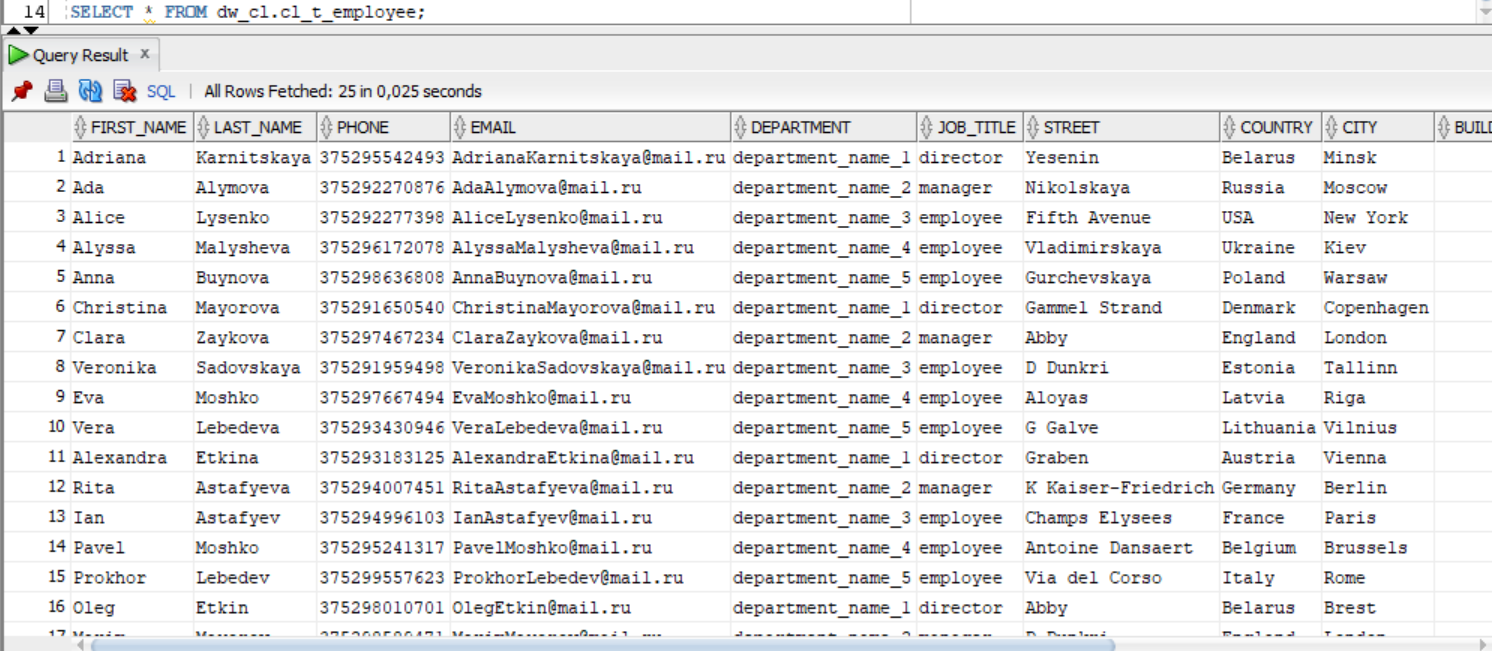
1. dw\_cl.cl\_t\_client



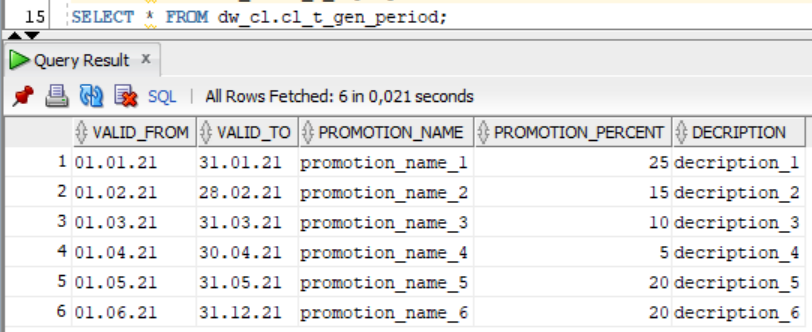
1. dw\_cl.cl\_t\_dish



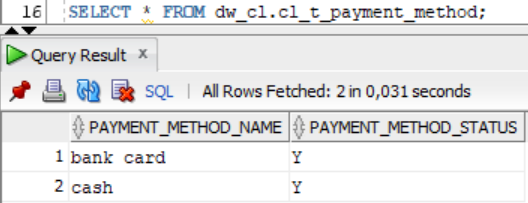
1. dw\_cl.cl\_t\_employee (SCD2)



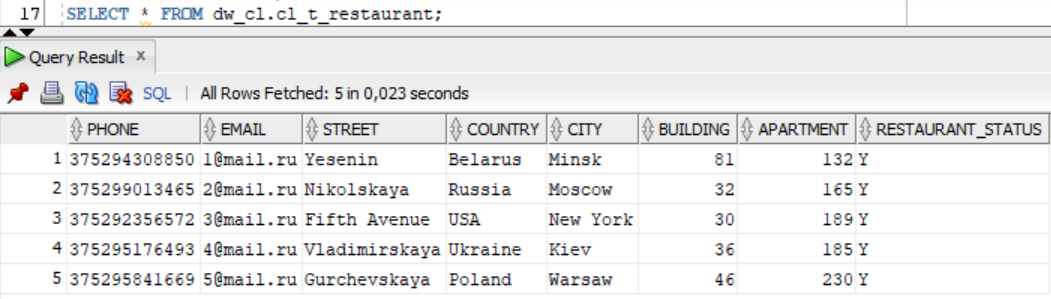
1. dw\_cl.cl\_t\_gen\_period



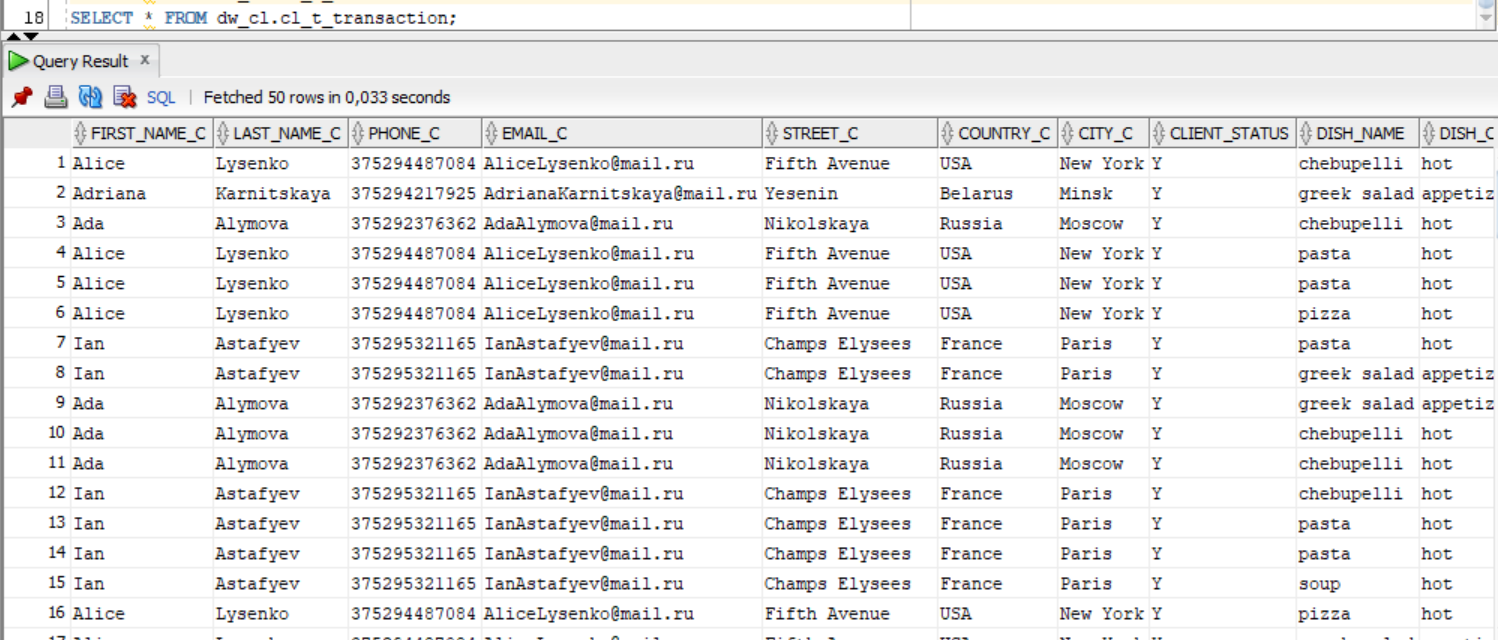
1. dw\_cl.cl\_t\_payment\_method



1. dw\_cl.cl\_t\_restaurant

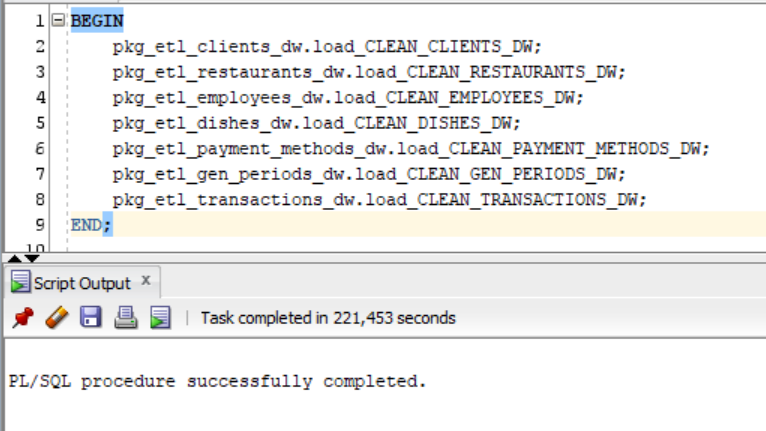


1. dw\_cl.cl\_t\_transaction



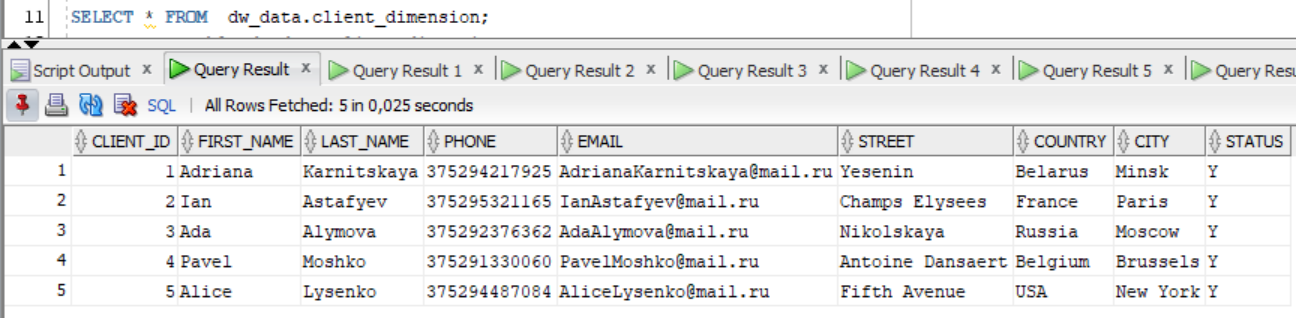
**DW level:**

Re-run the script with procedures that fill tables with data from dw\_cl level to dw:

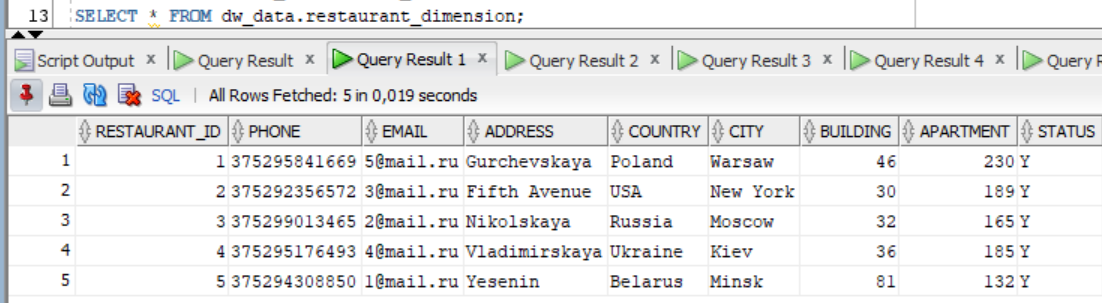


Selects from tables on dw level:

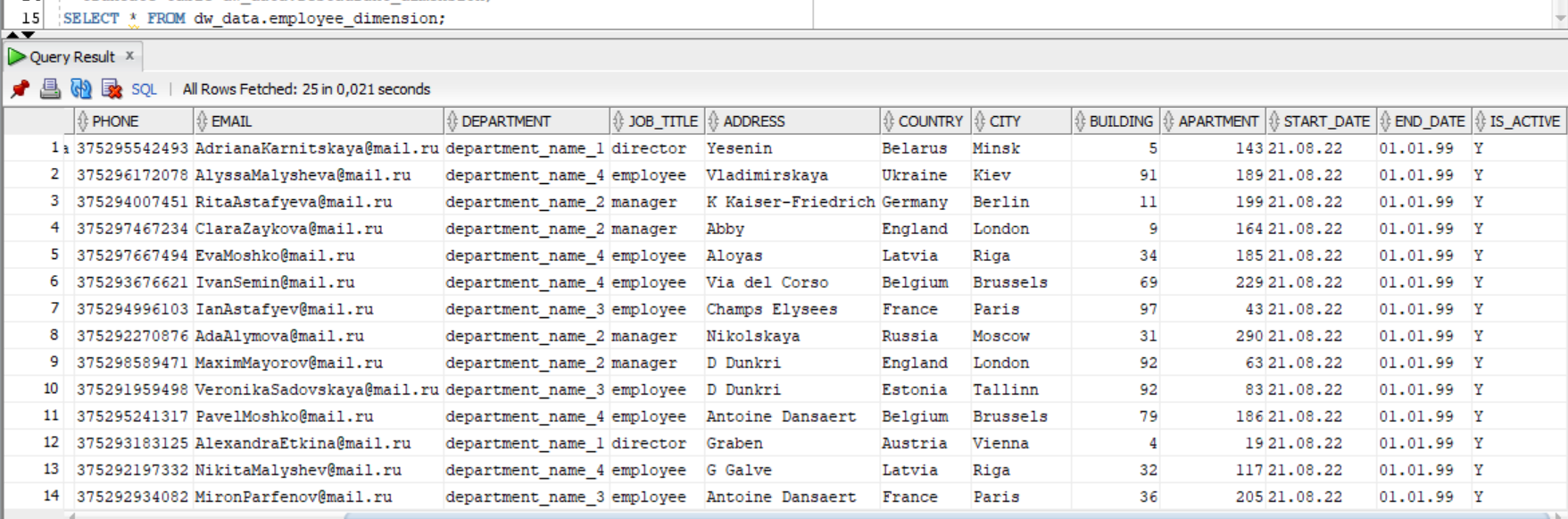
1. dw\_data.client\_dimension



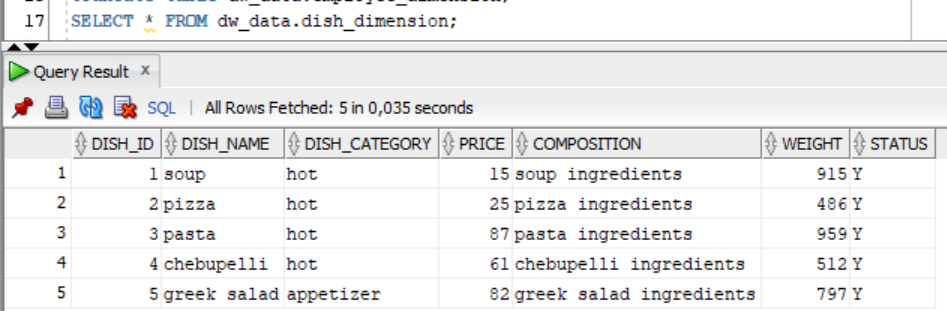
1. dw\_data.restaurant\_dimension



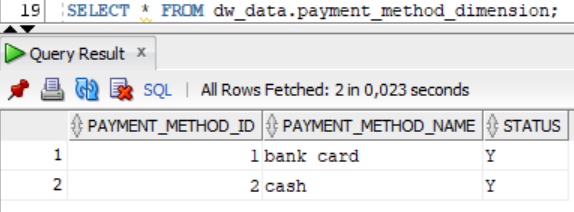
1. dw\_data.employee\_dimension (SCD2)



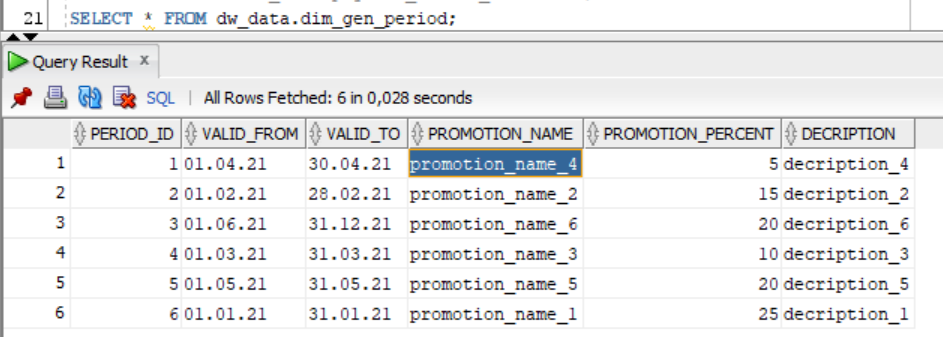
1. dw\_data.dish\_dimension



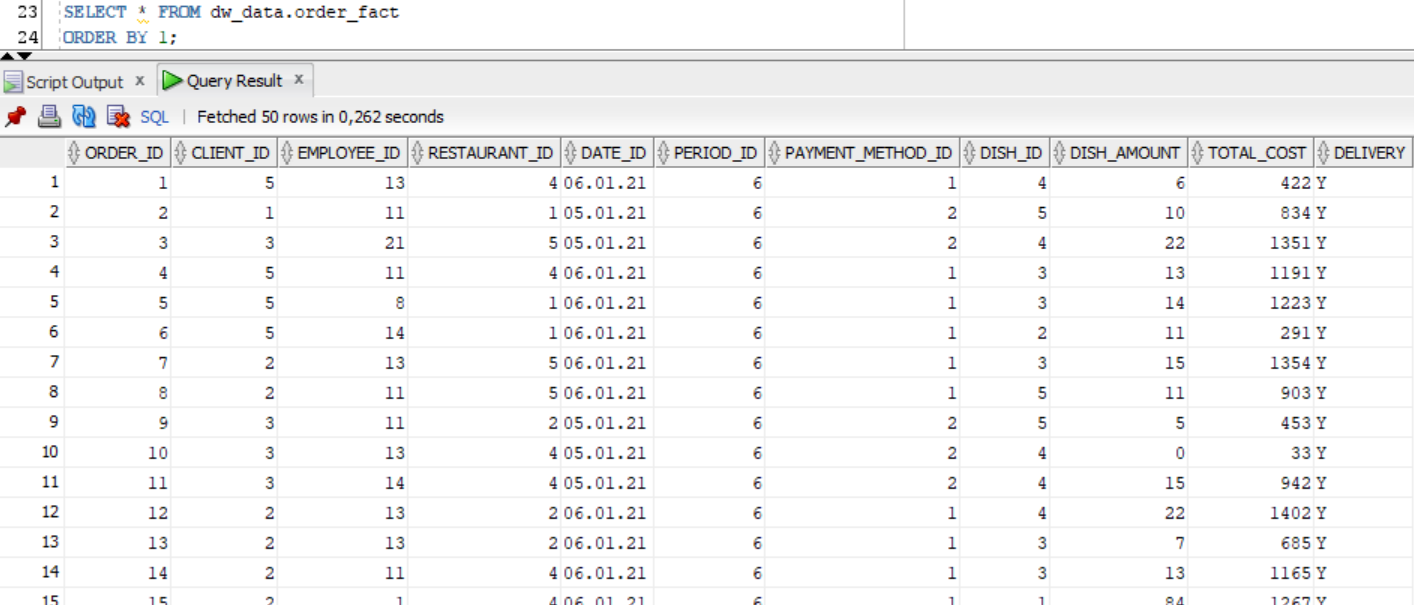
1. dw\_data.payment\_method\_dimension



1. dw\_data.dim\_gen\_period

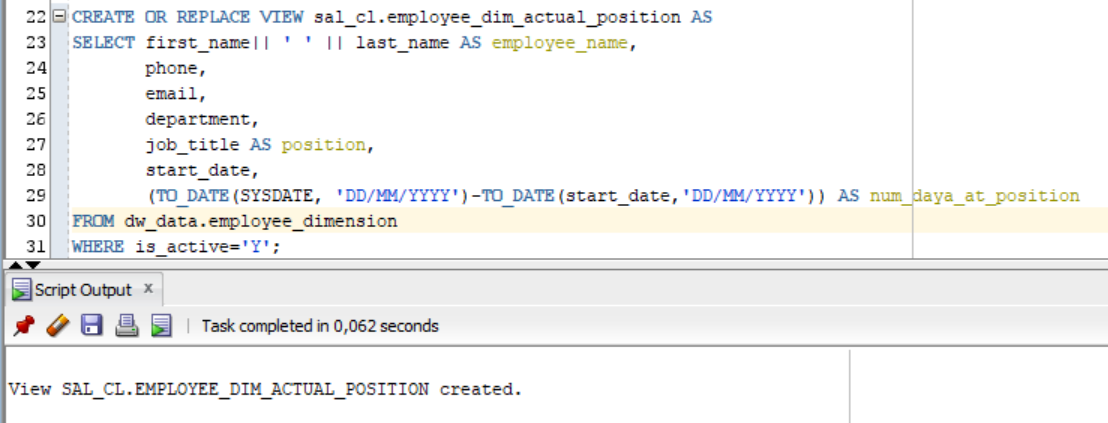


1. dw\_data.order\_fact

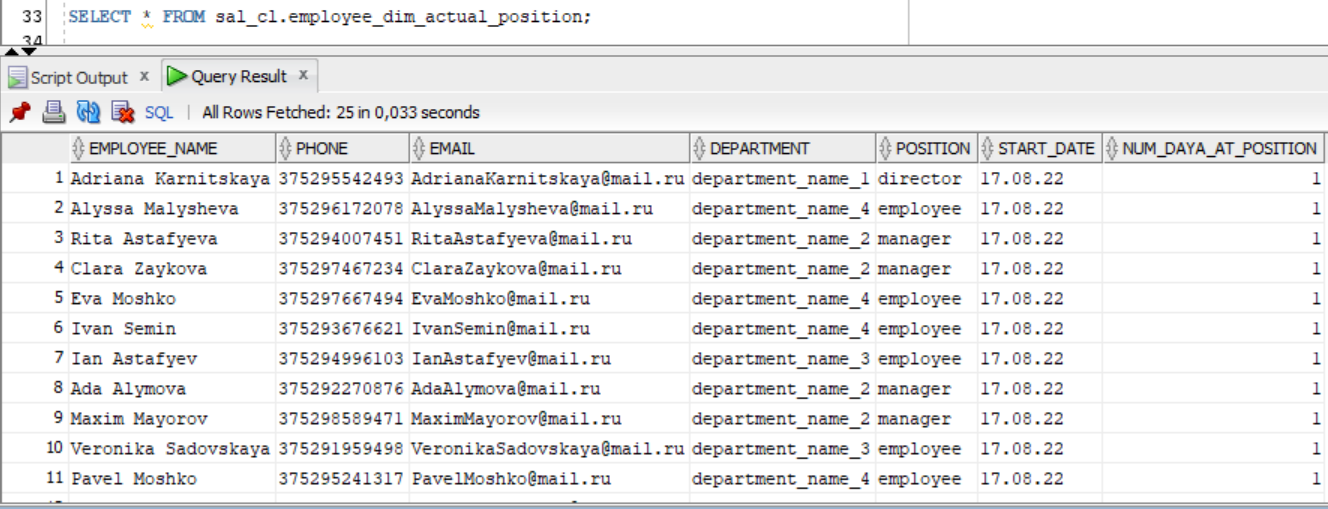


**SAL level:**

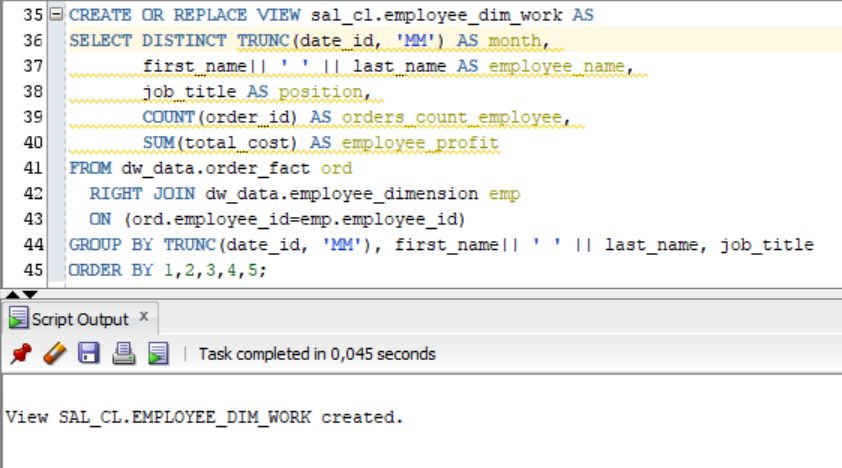
Let's create view sal\_cl.employee\_dim\_actual\_position that contains information about the duration of work of all employees in the current position:



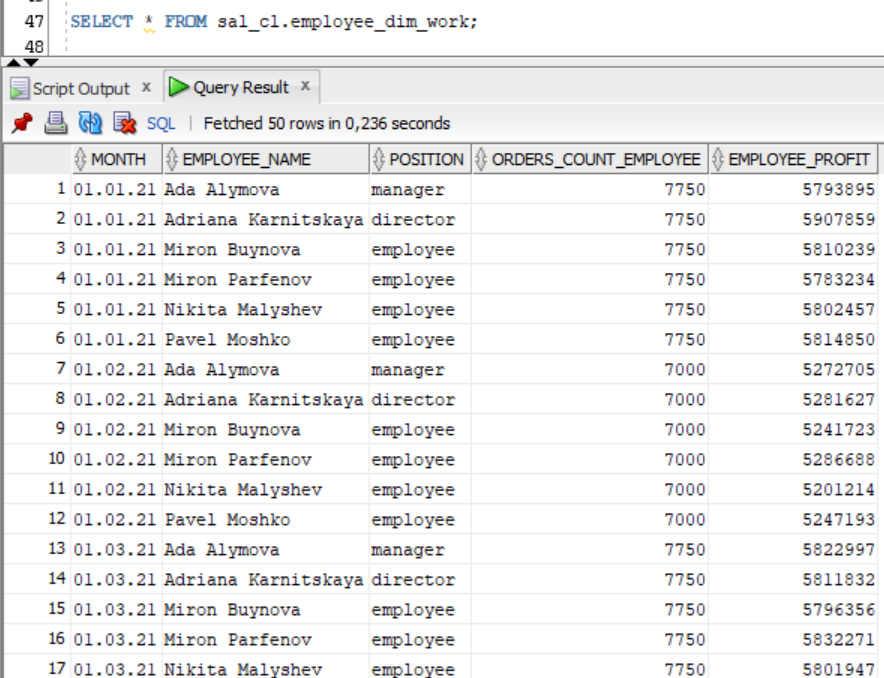
Select from view sal\_cl.employee\_dim\_actual\_position:



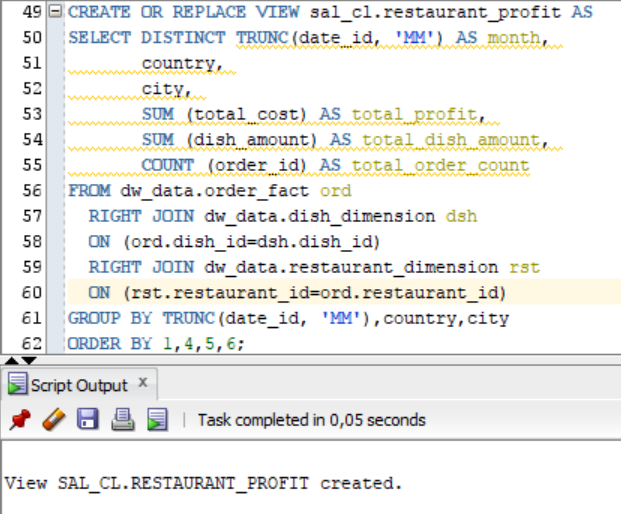
Let's create view sal\_cl.employee\_dim\_work that contains information about the amount of work of each employee per month (number of orders and total profit):



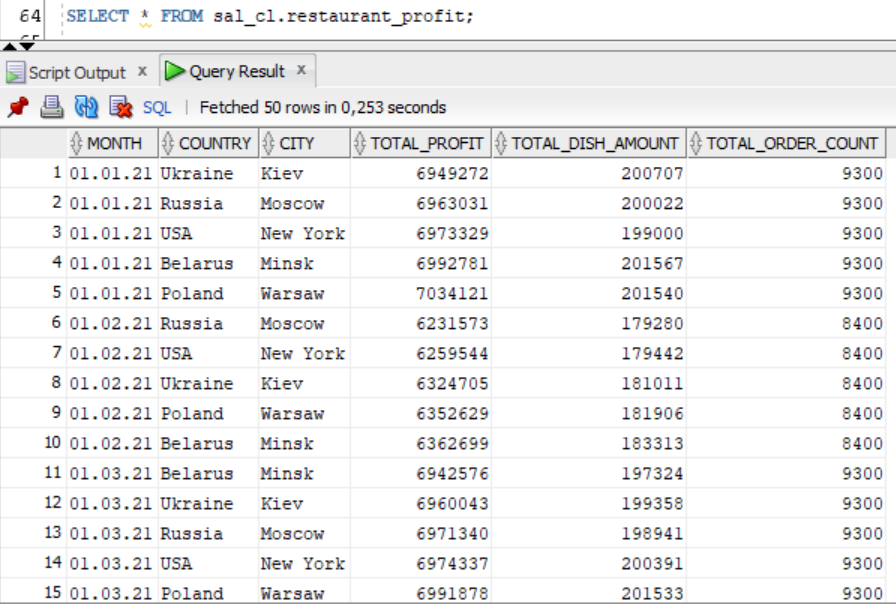
Select from view sal\_cl.employee\_dim\_work:



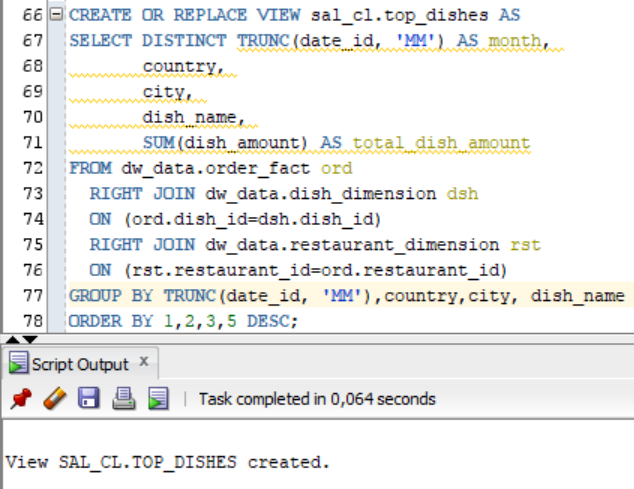
Let's create sal\_cl.restaurant\_profit view that contains information about the profit for the month for each restaurant, the number of dishes sold and the total number of orders:



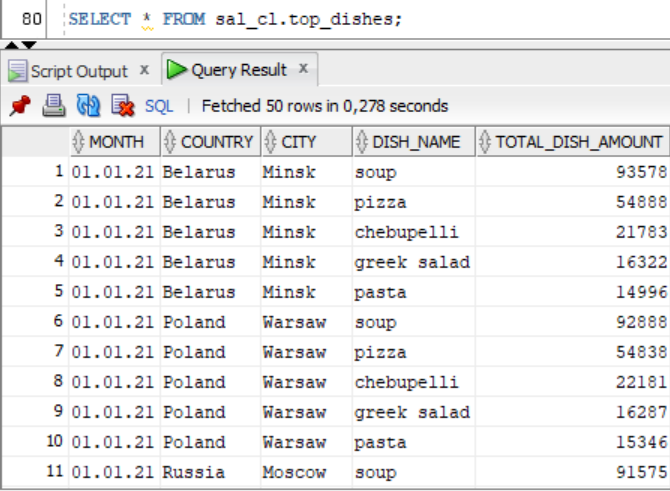
Select from view sal\_cl.restaurant\_profit:



Let's create view sal\_cl.top\_dishes that contains information about the popularity of each dish in each restaurant for a month:



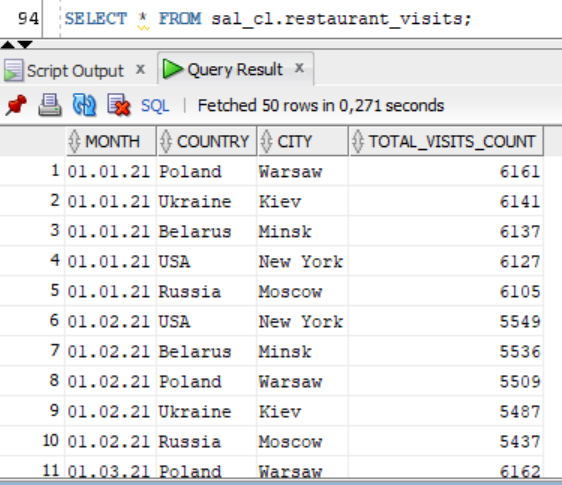
Select from view sal\_cl.top\_dishes:



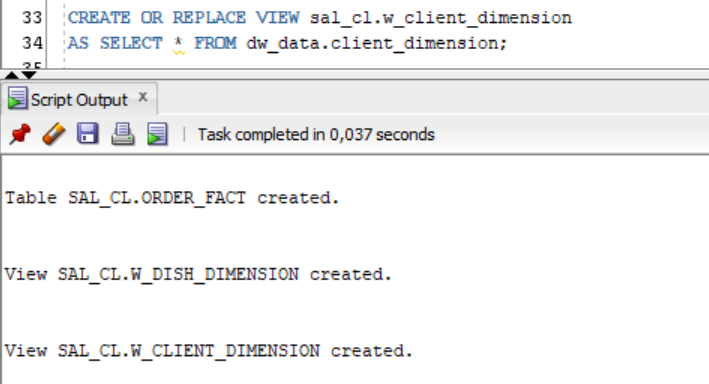
Let's create view sal\_cl.restaurant\_visits that contains information about the attendance of each restaurant for a month:



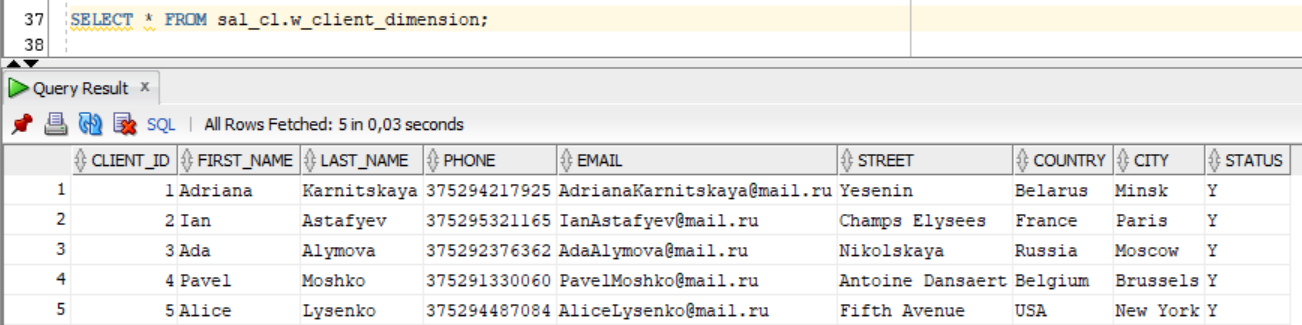
Select from view sal\_cl.restaurant\_:



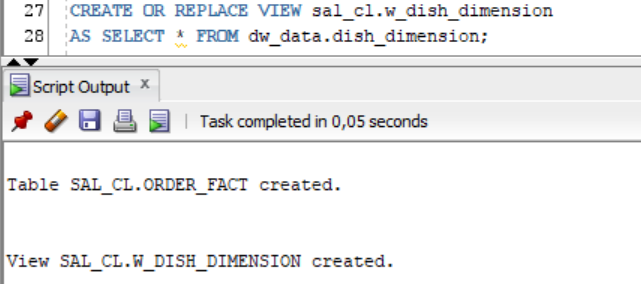
Let's create view sal\_cl.w\_client\_dimansion that stores all information about clients:



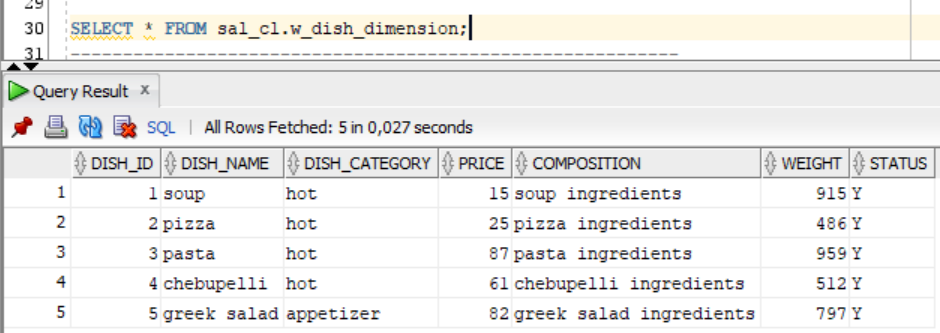
Select from view sal\_cl.w\_client\_dimansion:



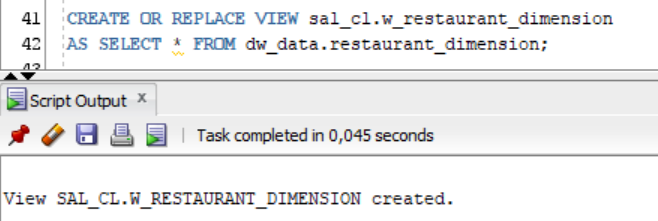
Let's create view sal\_cl.w\_dish\_dimension that stores all information about dishes:



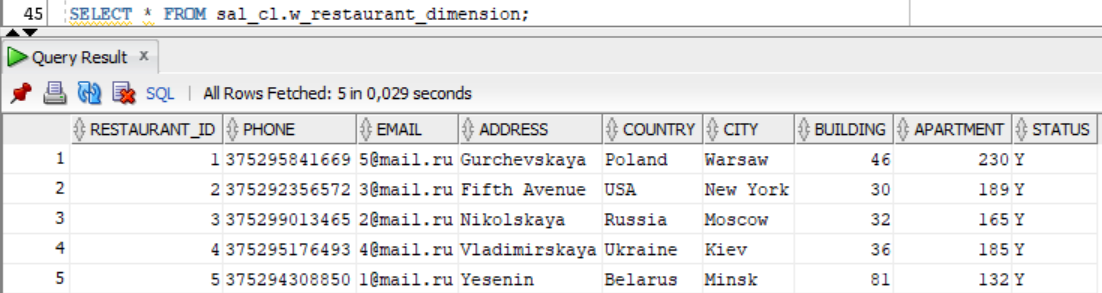
Select from view sal\_cl.w\_dish\_dimension:



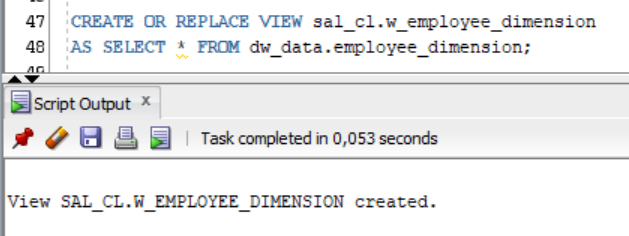
Let's create view sal\_cl.w\_restaurant\_dimension that stores all information about restaurants:



Select from view sal\_cl.w\_restaurant\_dimension:



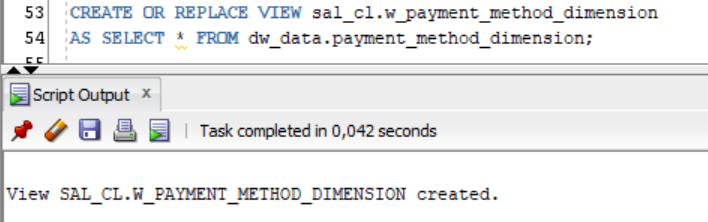
Let's create view sal\_cl.w\_employee\_dimension that stores all information about employees:



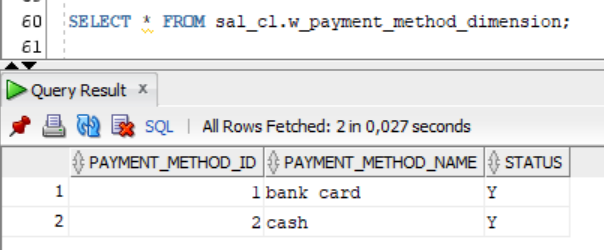
Select from view view sal\_cl.w\_employee\_dimension:



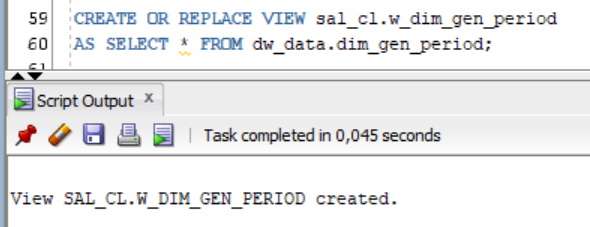
Let's create view sal\_cl.w\_payment\_method\_dimension that stores all information about payment methods:



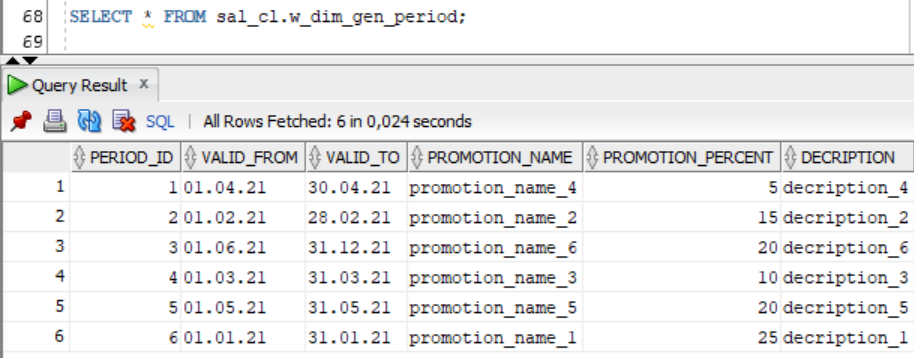
Select from view sal\_cl.w\_payment\_method\_dimension:



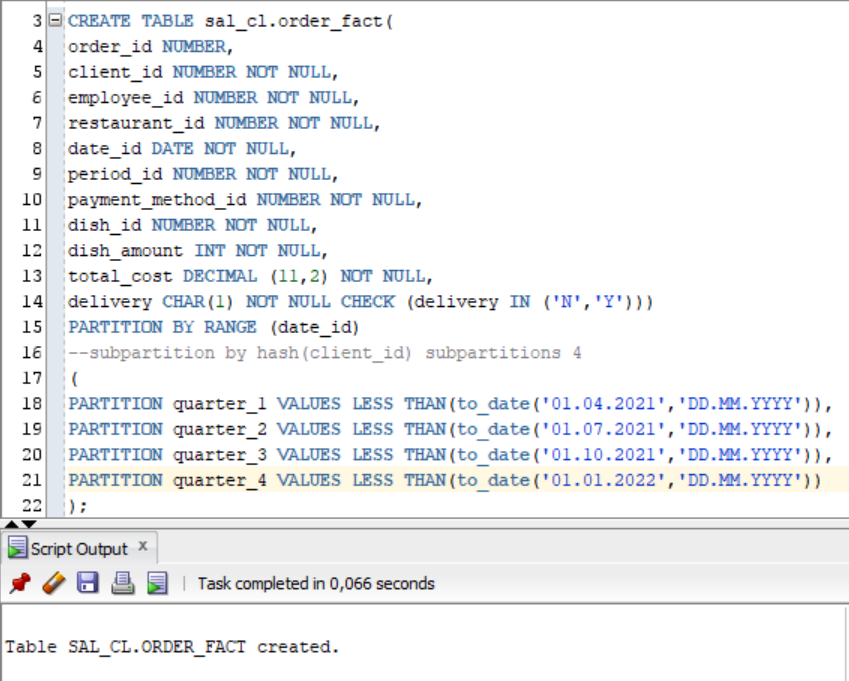
Let's create view sal\_cl.w\_gen\_period that stores all information about gen periods:



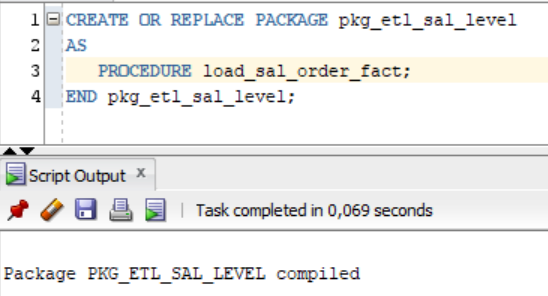
Select from view sal\_cl.w\_gen\_period:

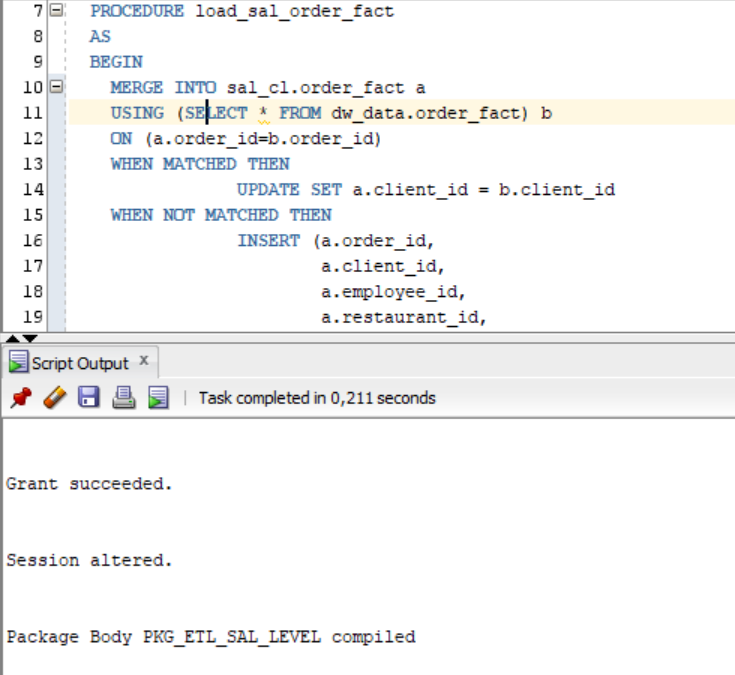


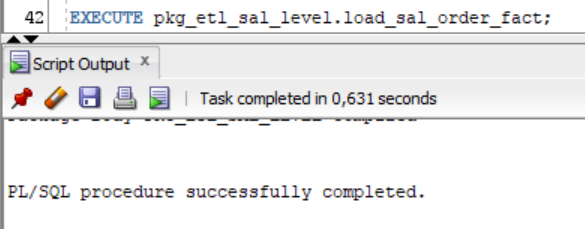
Let's create table sal\_cl.order\_fact that stores all information about orders:



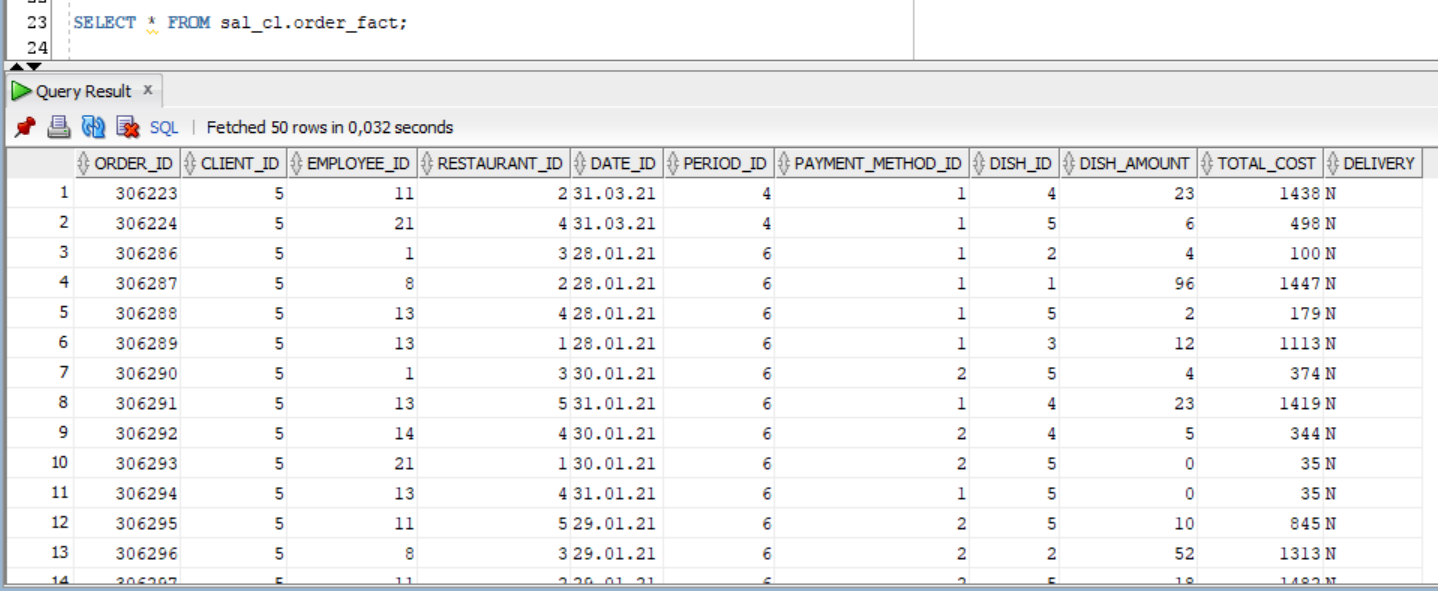
Let’s create package pkg\_etl\_sal\_level and procedure load\_sal\_order\_fact to load data to table sal\_cl.order\_fact:



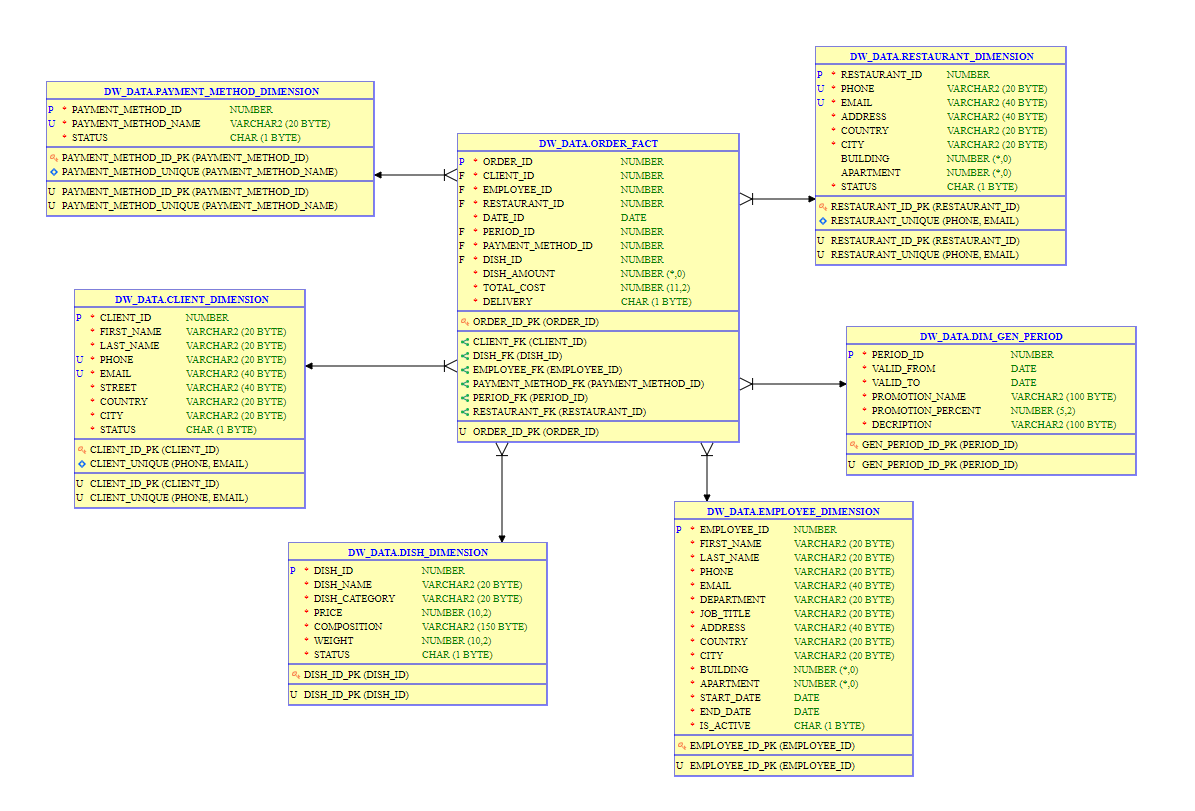




Select from table sal\_cl.order\_fact:

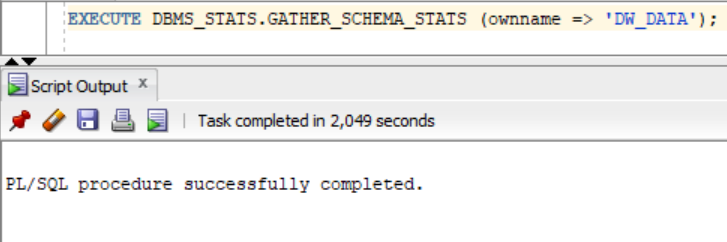


**Star scheme:**

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**Statistics for Star Scheme:**

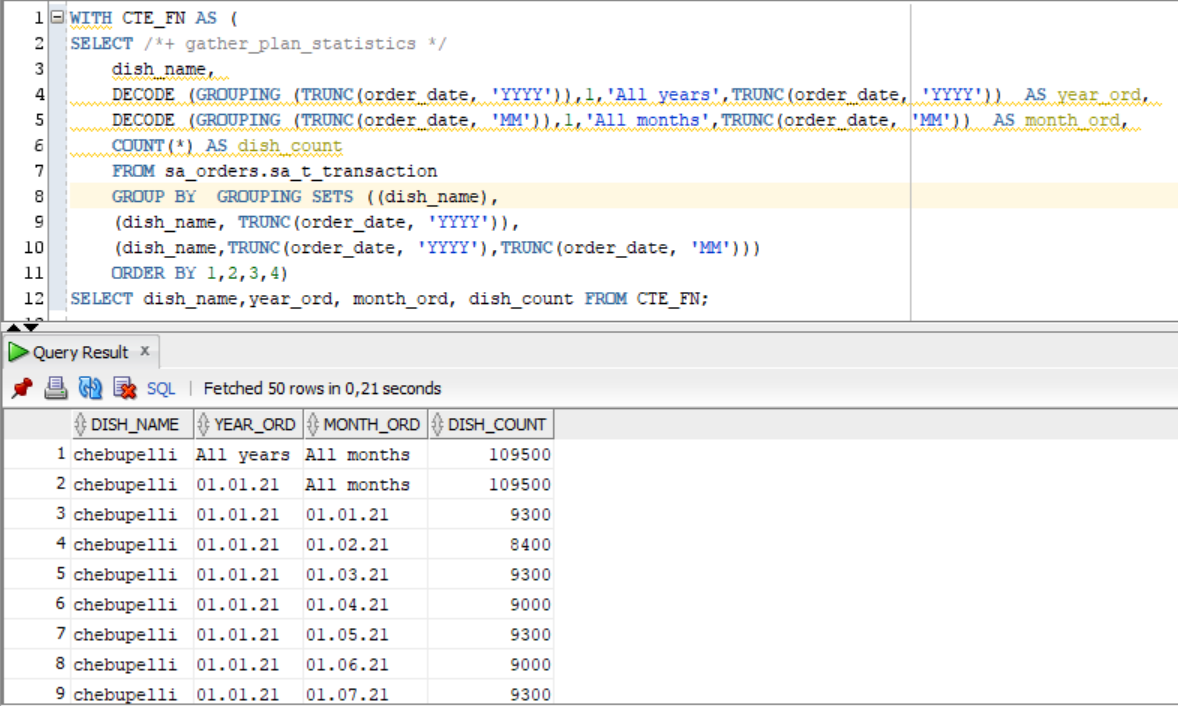
The statistics which is required by cost based optimizer was gathered using DBMS\_STATS package. Result of procedure execution for schema is presented below:

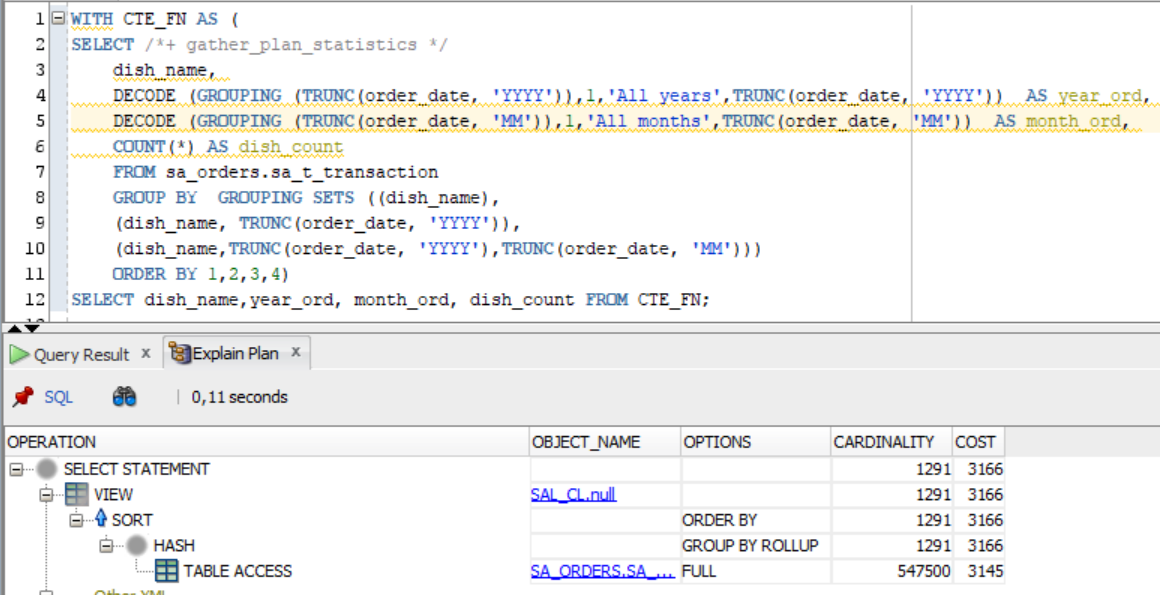
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**Task 2 - Performance comparison**

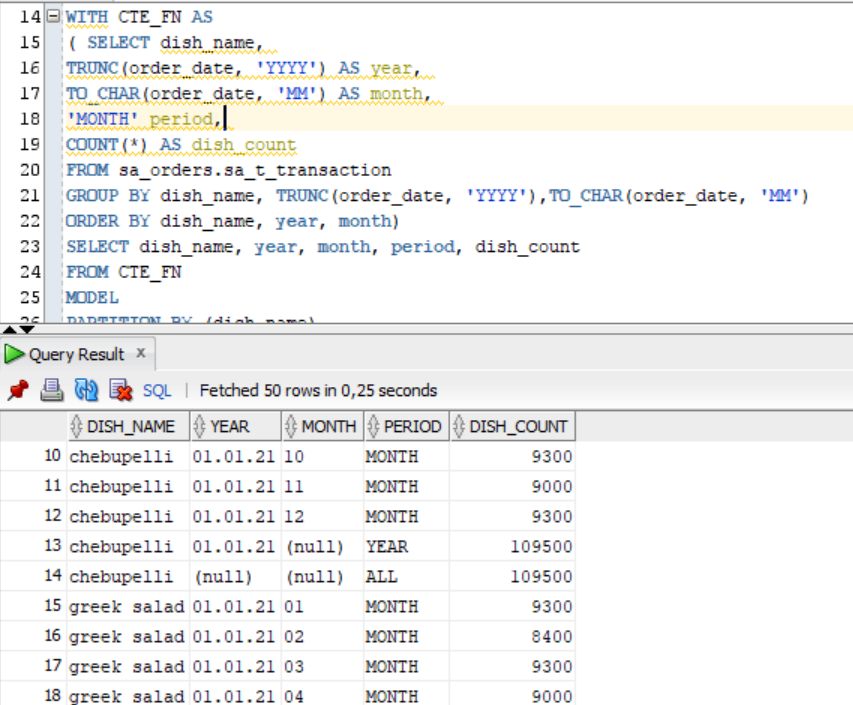
Let's compare 3 queries that get the quantity of each item found in orders:

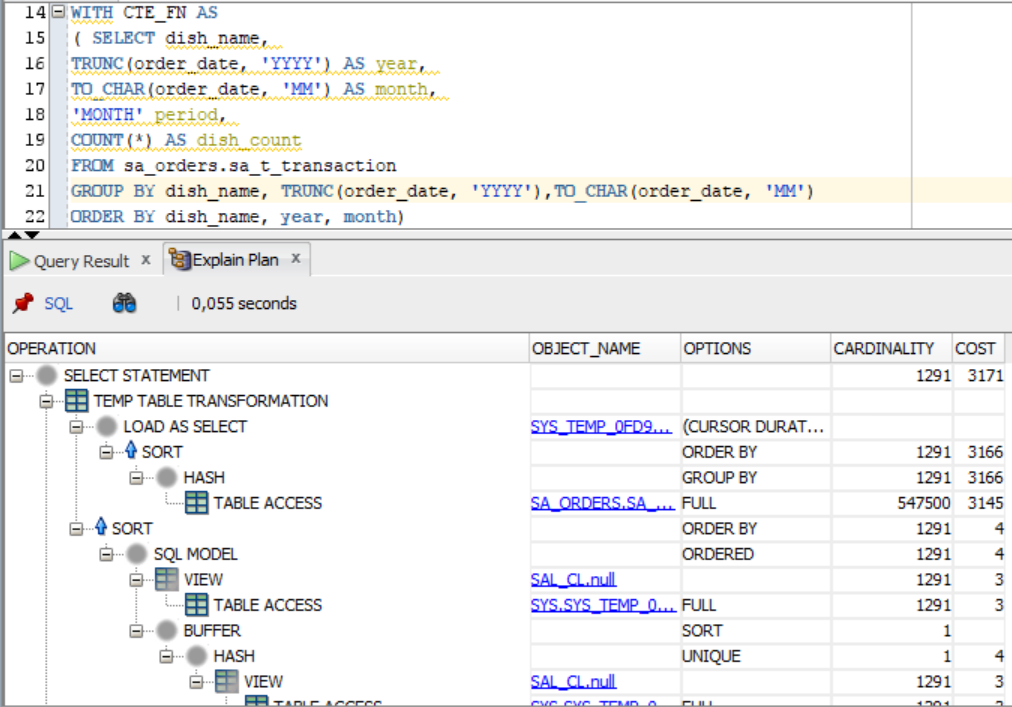
1. Lab 2, sa level, advancing grouping

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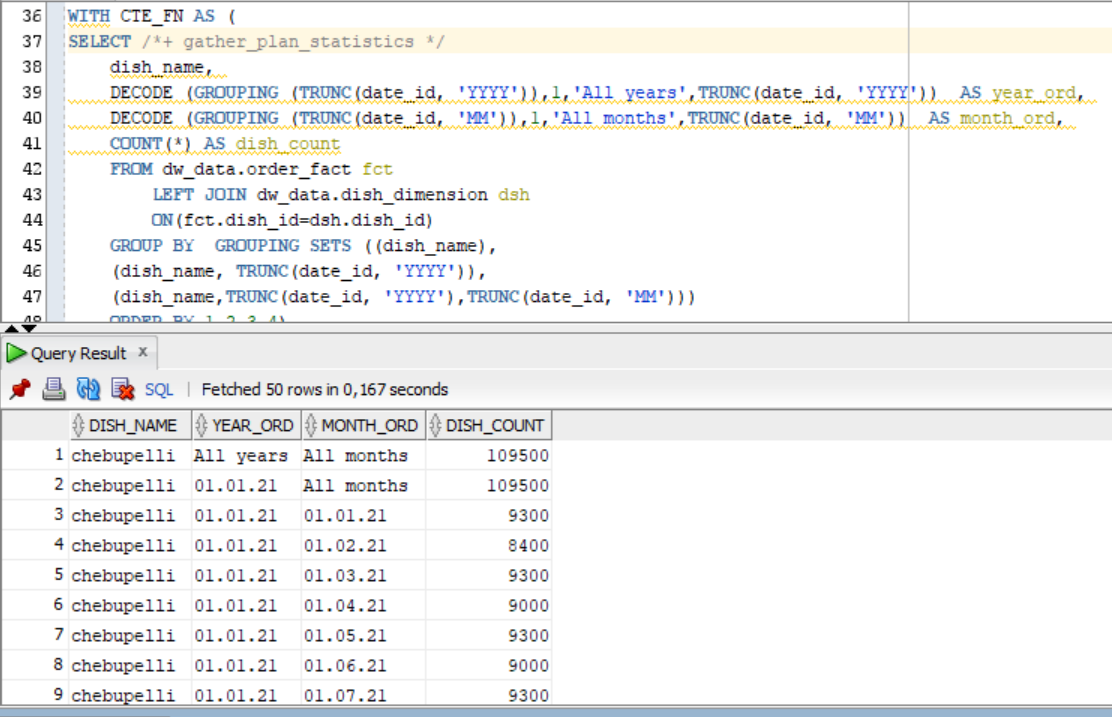
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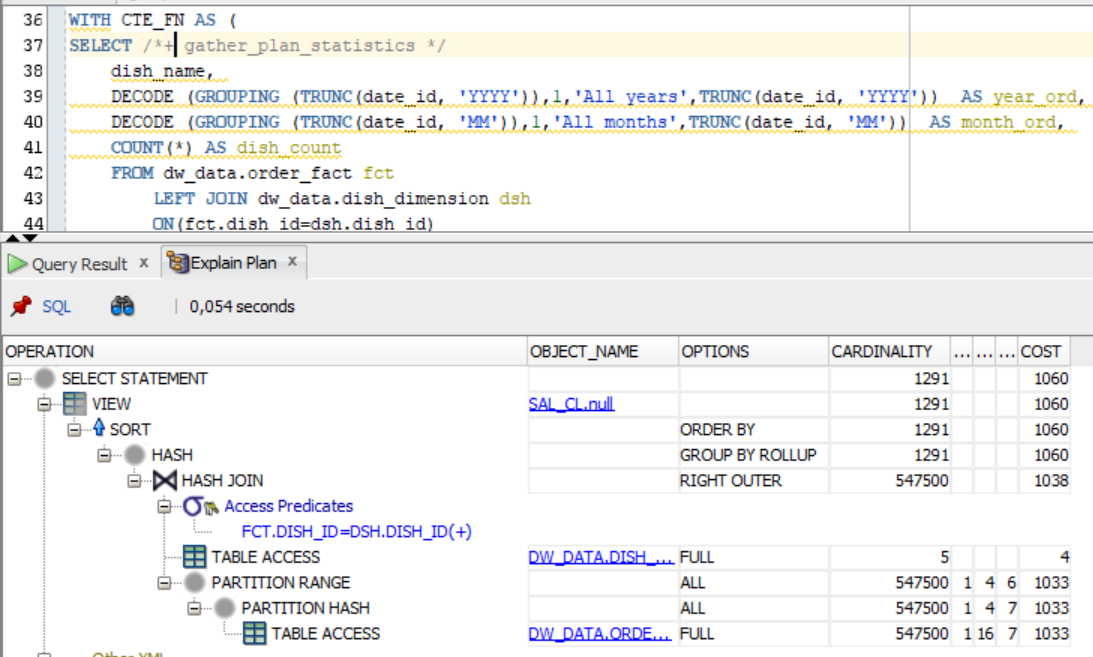
1. Lab 5, sa level, model clause:

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1. Lab 11, dw level, star scheme:

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| --- | --- | --- | --- | --- |
| № | Source Type | Explain Plan - Statistics | | Time, Sec. |
| Cardinality | Cost |
| 1 | Lab 2, Advancing Grouping | 1291 | 3166 | 0,21 |
| 2 | Lab 5, Model Clause | 1291 | 3171 | 0,25 |
| 3 | Lab 11, Star Schema | 1291 | 1060 | 0,167 |