**Anton Slizh’s**

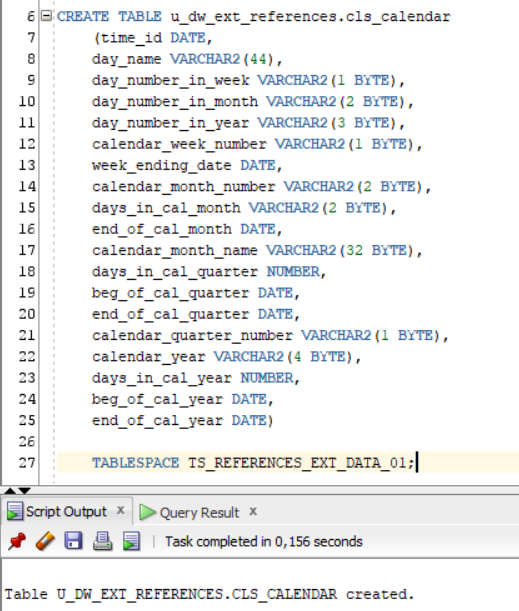
U1M7.LW.Dimension and Facts Basics

*GitHub:* [*https://github.com/drapejny/DataCamp2022*](https://github.com/drapejny/DataCamp2022)

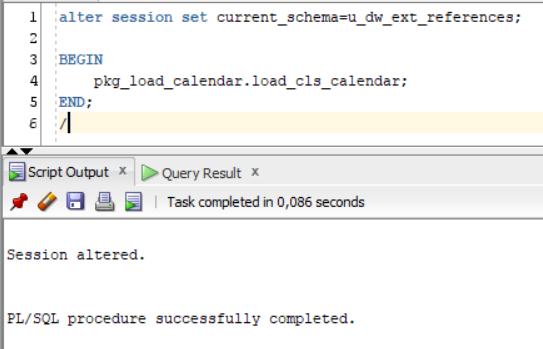
**Task 0**

First of all, we need to create calendar table (*cls\_calendar*) and generate calendar data using provided script.

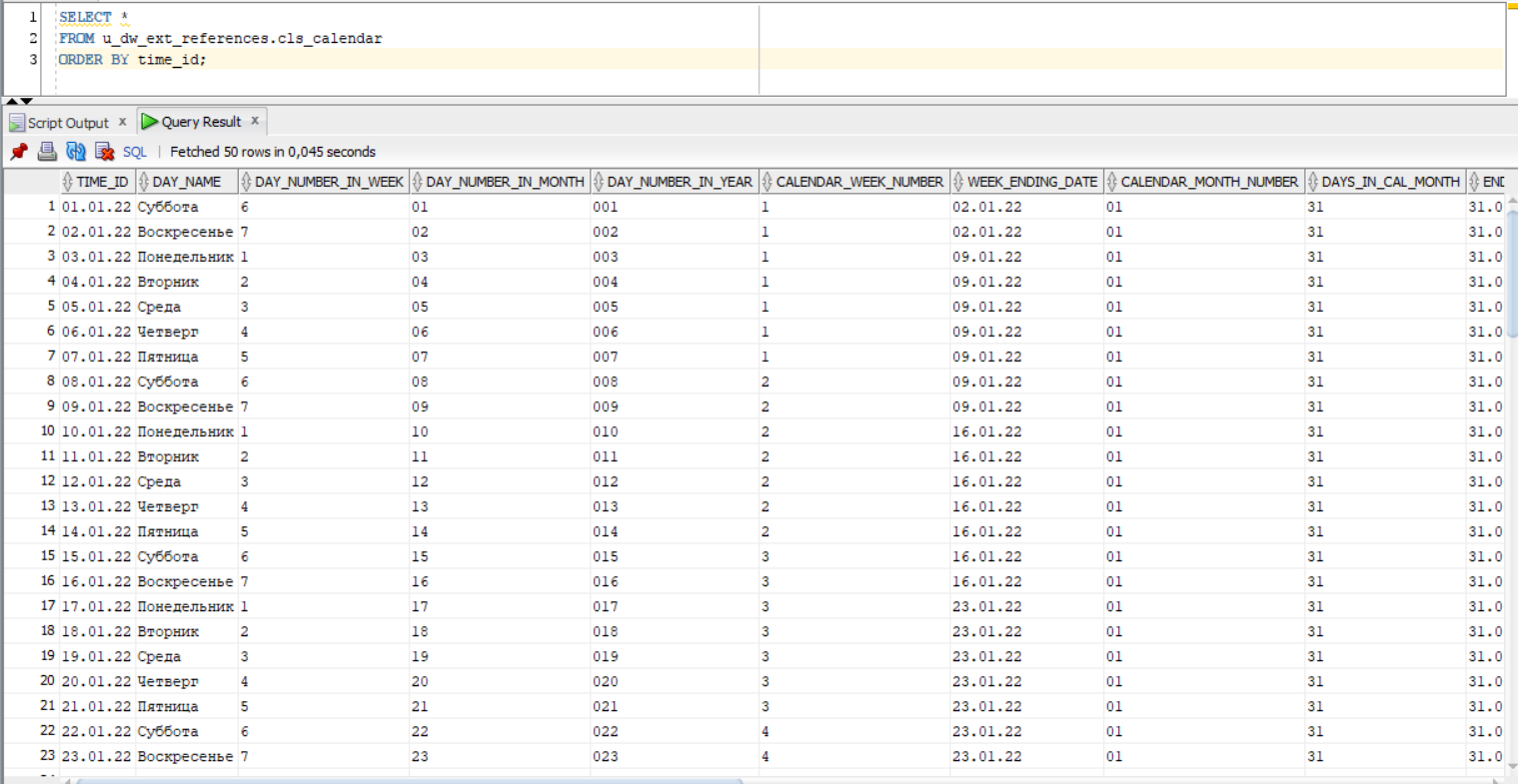
Creating *cls\_calendar* table:



Next, compile procedure to generate calendar data. After compiling run this procedure.



Checking inserted calendar data in *cls\_calendar* table:



**Task 1 t\_days**

CREATE TABLE u\_dw\_references.t\_days(

    time\_id DATE,

    day\_name VARCHAR2(44),

    day\_number\_in\_week VARCHAR2(1),

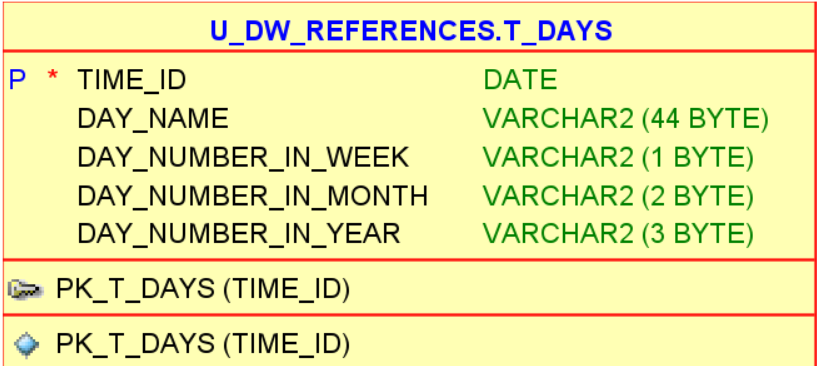
    day\_number\_in\_month VARCHAR2(2),

    day\_number\_in\_year VARCHAR2(3),

    CONSTRAINT pk\_t\_days PRIMARY KEY (time\_id)

)

TABLESPACE TS\_REFERENCES\_DATA\_01;



**Task 2 t\_weeks**

CREATE TABLE u\_dw\_references.t\_weeks(

    time\_id DATE,

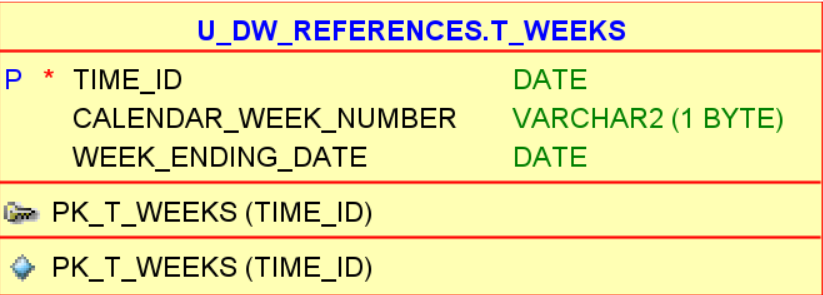
    calendar\_week\_number VARCHAR2(1),

    week\_ending\_date DATE,

    CONSTRAINT pk\_t\_weeks PRIMARY KEY (time\_id)

)

TABLESPACE TS\_REFERENCES\_DATA\_01;



**Task 3 t\_months**

CREATE TABLE u\_dw\_references.t\_months(

    time\_id DATE,

    calendar\_month\_number VARCHAR2(2),

    days\_in\_cal\_month VARCHAR2(2),

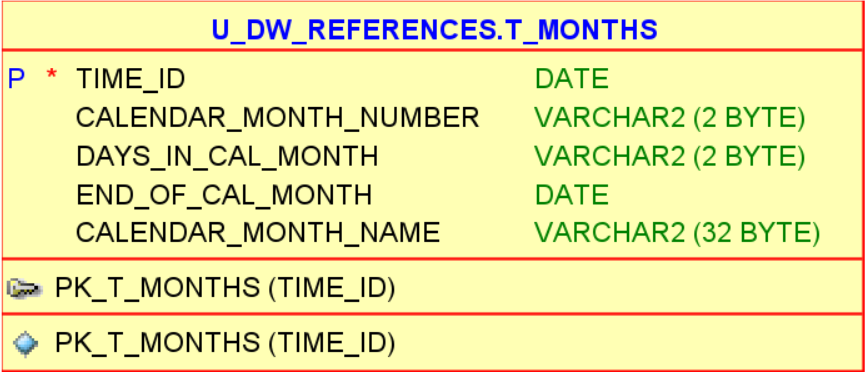
    end\_of\_cal\_month DATE,

    calendar\_month\_name VARCHAR2(32),

    CONSTRAINT pk\_t\_months PRIMARY KEY (time\_id)

)

TABLESPACE TS\_REFERENCES\_DATA\_01;

****

**Task 4 t\_quarters**

CREATE TABLE u\_dw\_references.t\_quarters(

    time\_id DATE,

    days\_in\_cal\_quarter NUMBER,

    beg\_of\_cal\_quarter DATE,

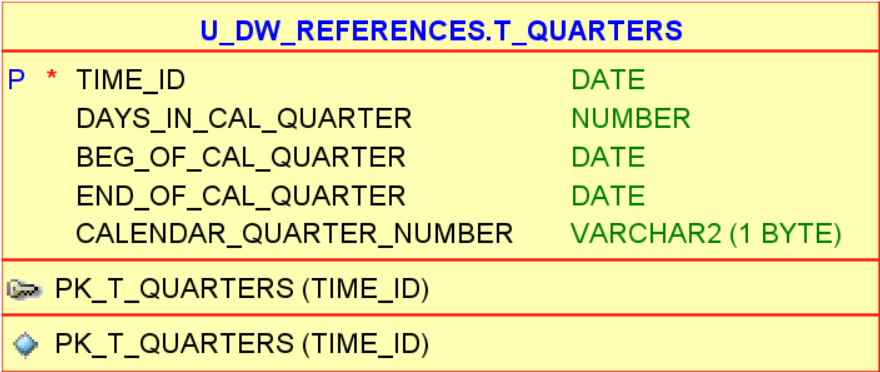
    end\_of\_cal\_quarter DATE,

    calendar\_quarter\_number VARCHAR2(1),

    CONSTRAINT pk\_t\_quarters PRIMARY KEY (time\_id)

)

TABLESPACE TS\_REFERENCES\_DATA\_01;

****

**Task 5 t\_years**

CREATE TABLE u\_dw\_references.t\_years(

    time\_id DATE,

    calendar\_year VARCHAR2(4),

    days\_in\_cal\_year NUMBER,

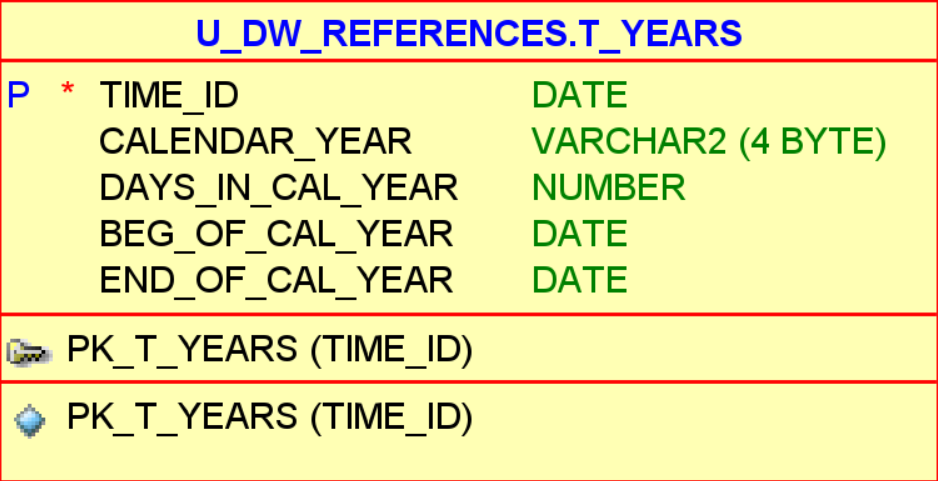
    beg\_of\_cal\_year DATE,

    end\_of\_cal\_year DATE,

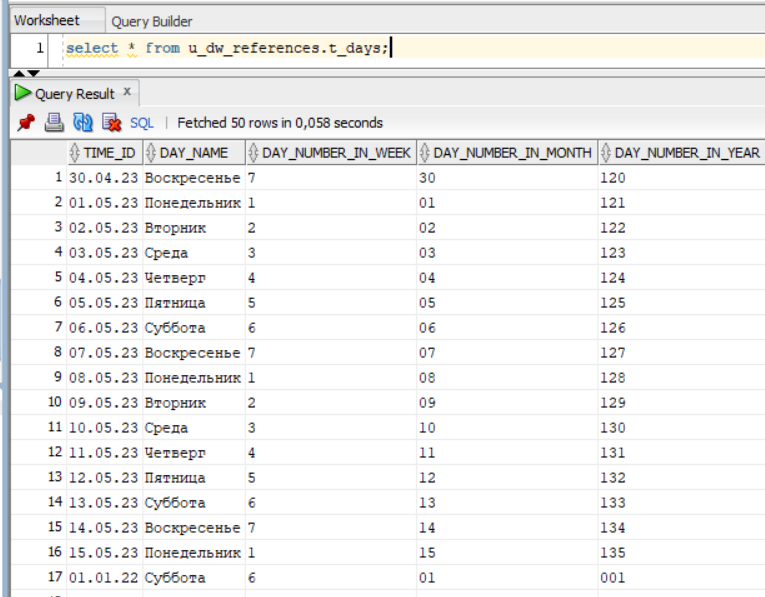
    CONSTRAINT pk\_t\_years PRIMARY KEY (time\_id)

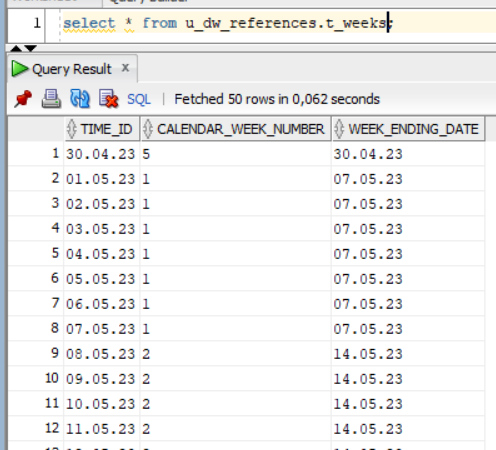
)

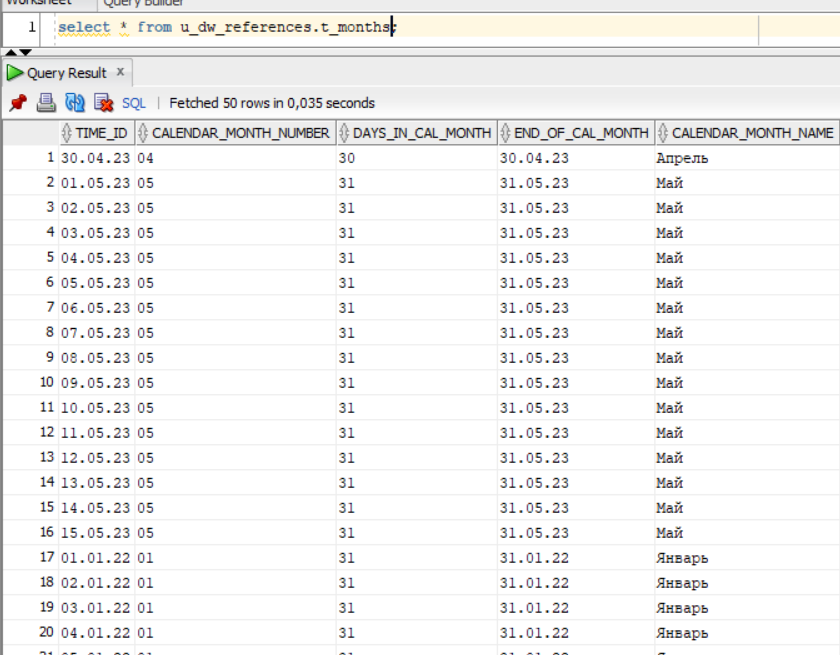
TABLESPACE TS\_REFERENCES\_DATA\_01;

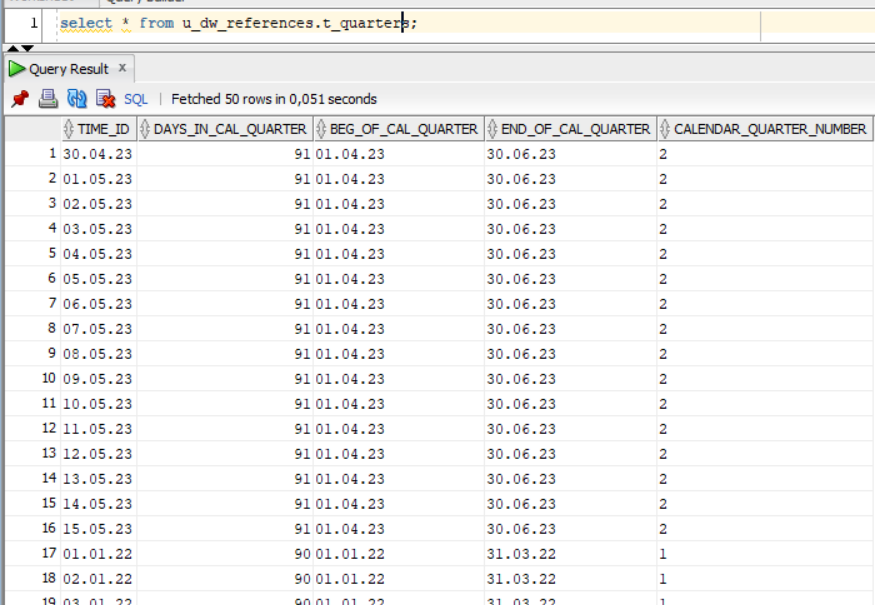
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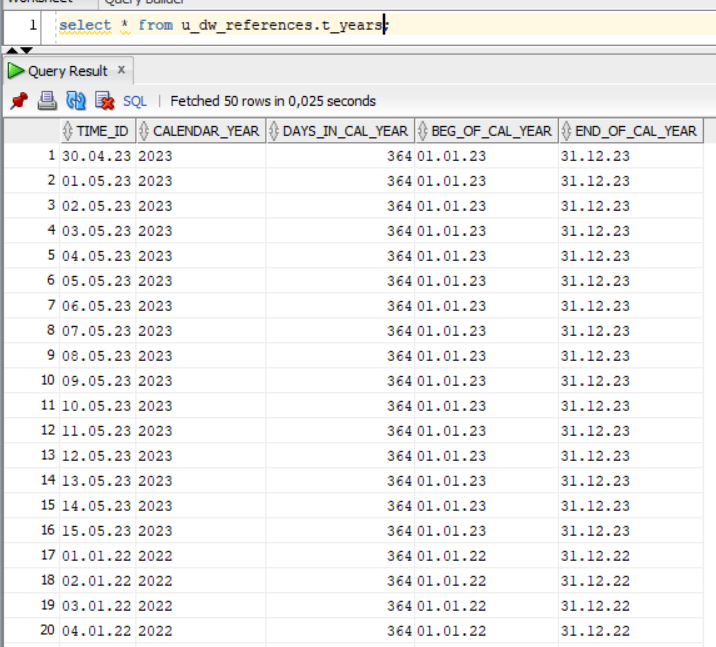
After executing all scripts, we can select data from tables:











Second part of the lab is coming soon