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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | Hanna Takushevich | 29-NOV-2017 |  |  |

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# Create packages to load dimensions from source to staging (3NF) layer

The Main Task is to create independent packages to load dimensions according to your DWH solution concept that was developed on Module 6 Introduction to DWH.

Required points:

* Create all required dim objects on ST Layer (T\_...).
* Grant all required privileges to ST\_CL (Cleansing Layer).
* Create packages to load dim data (one package = one dimension) on ST\_CL.
* Use Explicit Cursor (One or more procedures).

Процедура для заполнения cls таблицы с сабрегионами:

PROCEDURE load\_to\_cls

IS

subr\_code wrk\_subregions.subregion\_code%TYPE;

subr\_name wrk\_subregions.subregion\_name%TYPE;

subr\_country\_key wrk\_subregions.subregion\_country\_key%TYPE;

CURSOR c1

IS

SELECT \* FROM wrk\_subregions;

BEGIN

EXECUTE IMMEDIATE 'truncate table cls\_subregions';

OPEN c1;

LOOP

FETCH c1 INTO subr\_code, subr\_name, subr\_country\_key;

EXIT

WHEN c1%NOTFOUND;

INSERT INTO cls\_subregions VALUES

(subr\_code, subr\_name, subr\_country\_key

);

END LOOP;

CLOSE c1;

COMMIT;

EXCEPTION

WHEN OTHERS THEN

RAISE;

END load\_to\_cls;

* Use Implicit Cursor (One or more procedures).

Процедура для заполнения cls таблицы c авиалиниями:

PROCEDURE load\_to\_cls

IS

BEGIN

EXECUTE IMMEDIATE 'truncate table cls\_airlines';

INSERT INTO cls\_airlines

SELECT airline\_name,

SUBSTR(icao\_iata\_codes, **1**, **3**),

SUBSTR(icao\_iata\_codes, **7**, **2**),

airline\_country

FROM wrk\_airlines

WHERE airline\_country IS NOT NULL

AND SUBSTR(icao\_iata\_codes, **1**, **3**) IS NOT NULL;

COMMIT;

EXCEPTION

WHEN OTHERS THEN

RAISE;

END load\_to\_cls;

* Use Merge (One or more procedures).

Загрузка данных в 3nf таблицу с городами.

PROCEDURE load\_to\_3nf

IS

BEGIN

--EXECUTE IMMEDIATE 'truncate table cls\_regions';

MERGE INTO ce\_cities ct USING

( SELECT city\_name, cc\_fips FROM cls\_cities

MINUS

SELECT city\_name, cc\_fips FROM ce\_cities

) cls ON ( cls.city\_name = ct.city\_name )

WHEN MATCHED THEN

UPDATE SET ct.cc\_fips = cls.cc\_fips WHEN NOT MATCHED THEN

INSERT

(

city\_id,

country\_id,

cc\_fips,

city\_name

)

VALUES

(

city\_seq.nextval ,

(select country\_id from ce\_countries where ce\_countries.cc\_fips=cls.cc\_fips),

cls.cc\_fips,

cls.city\_name

);

COMMIT;

EXCEPTION

WHEN OTHERS THEN

RAISE;

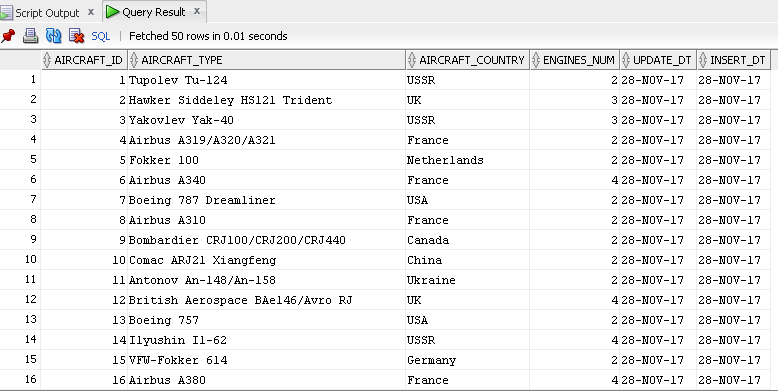
END load\_to\_3nf;

# Task Results

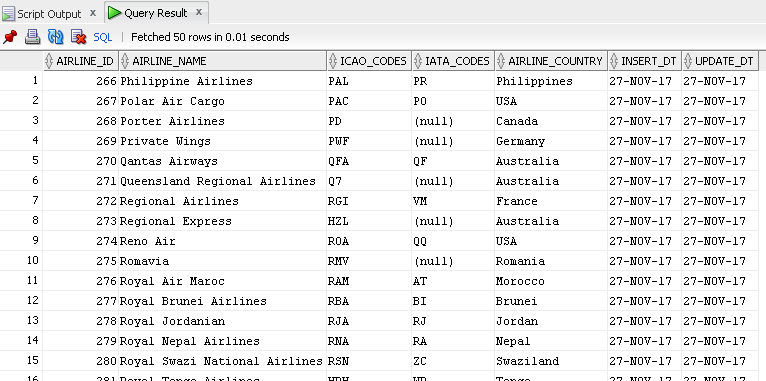
Create required objects:

* Prepare document with description of your load and screenshot of data in the Dimension Tables.
* Test Procedure for Repeatable execution (it should produce same consistent results each time on a same source data).

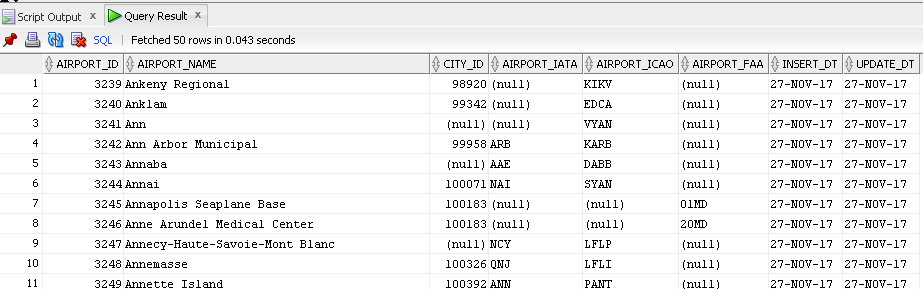
select \* from ce\_aircrafts



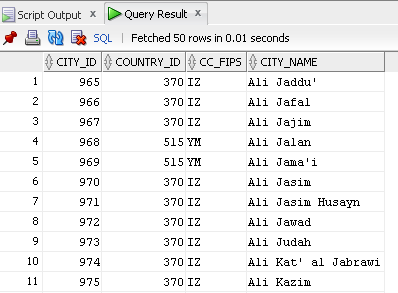
select \* from ce\_airlines



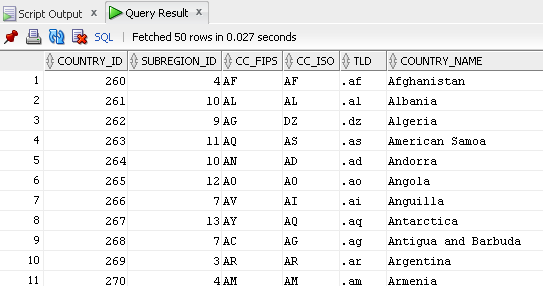
select \* from ce\_airports



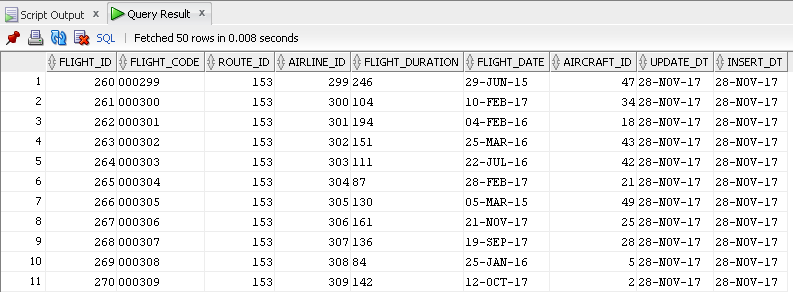
select \* from ce\_cities



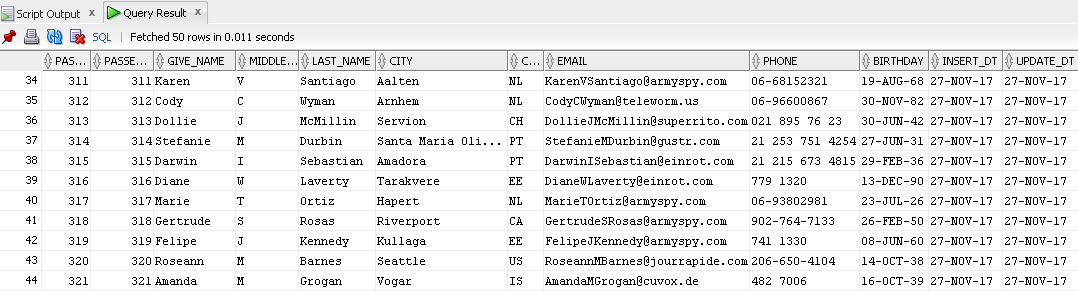
select \* from ce\_countries



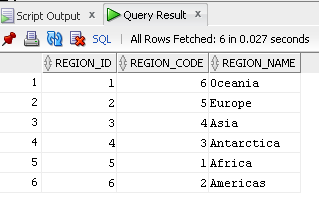
select \* from ce\_flights



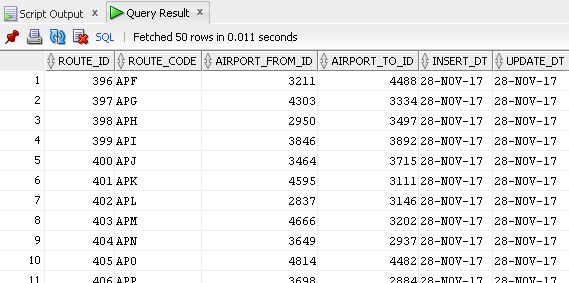
select \* from ce\_passengers



select \* from ce\_regions



select \* from ce\_routes



select \* from ce\_subregions

