

Report

Laboratory Work 6

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July 21, 2022

Prerequisites

Passwords Index

Password Group	Login Name	Password
Operation System	root	"rootadmin"
	oracle	"oracleadmin"
Oracle System	sys	"sysadmin"
	system	"sysadmin"
Oracle Users	All DB users	"%PWD%"

Folder Paths Index

Path Group	Path Description	Path
Operation System	Oracle RDBMS – BIN	/oracle/app/oracle
	Oracle Inventory	/oracle/app/oraInventory
	Oracle Database Storage	/oracle/oradata
	Oracle Install Directory	/oracle/install
Oracle	ORACLE_BASE	/oracle/app/oracle
	ORACLE_HOME	\$ORACLE_BASE/product/11.2
FTP	ftp Incoming Folder	/ftp/incoming

Task 01 – Install and expand load of external references T_Languages

The Main Task is to running preparing SQL scripts and install needed objects for load external reference T_Languages.

Task Results:

- Create sql scripts to show All created Tables and Views – Screenshot
- Create DataFlow: Sketch Diagram of loading external References (MS Visio, MS Paint, MS Word, etc.)
- Create sql: Showing result of data on next objects:
 - ✓ t_localizations
 - ✓ cu_languages
 - ✓ w_lng_links
 - ✓ cu_lng_scopes
 - ✓ cu_lng_types

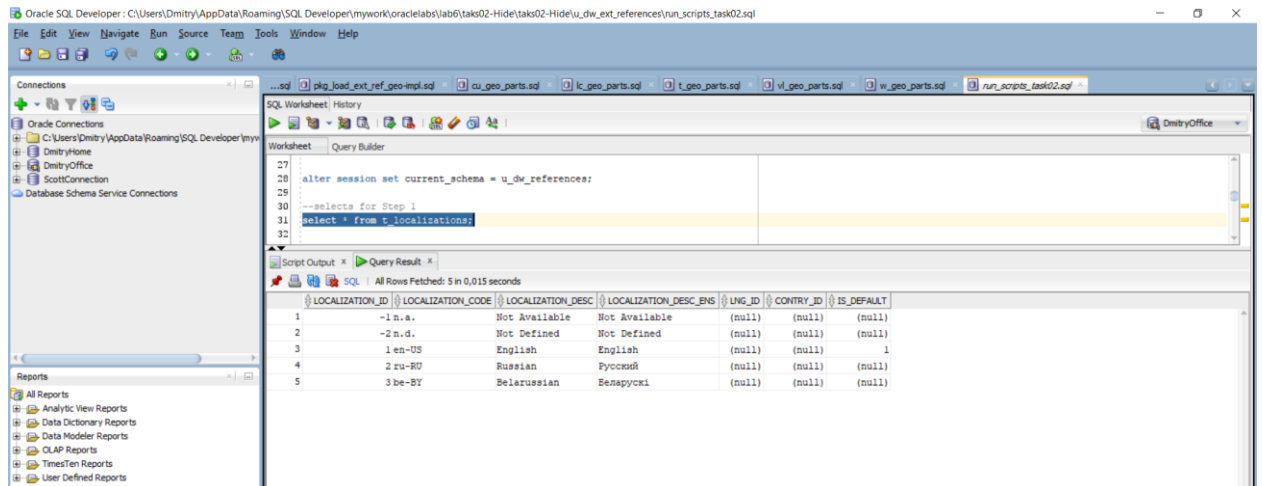


Рисунок 1 - t_localizations

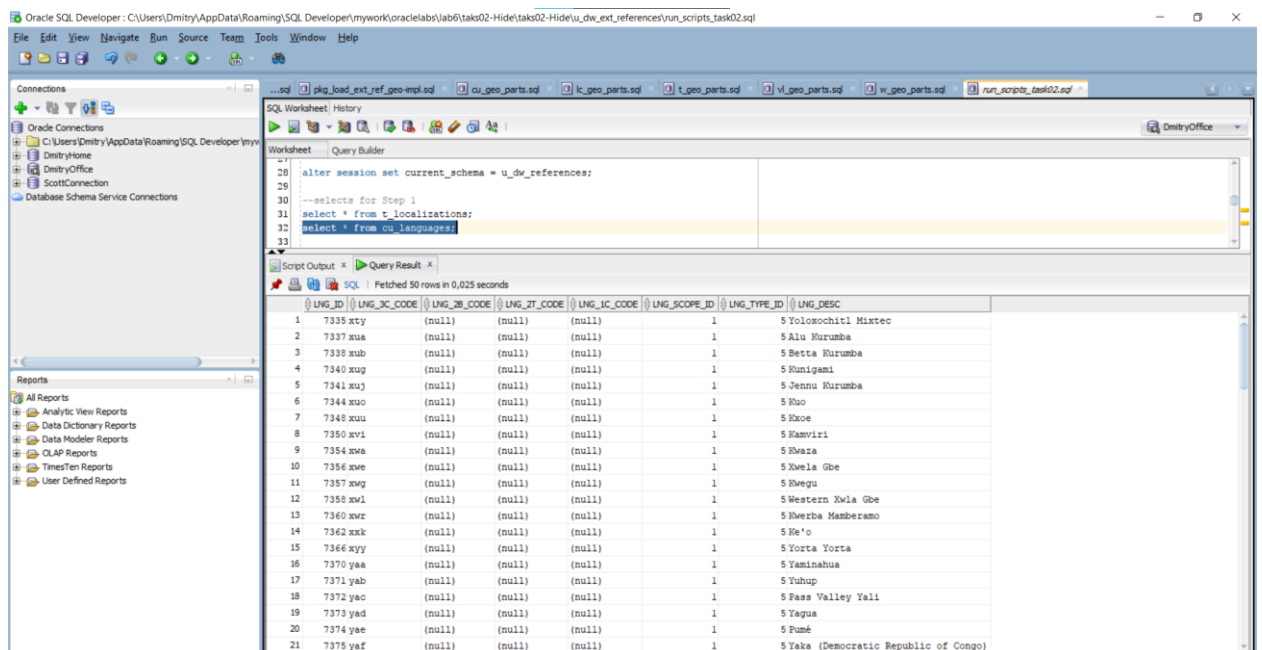


Рисунок 2 - cu_languages

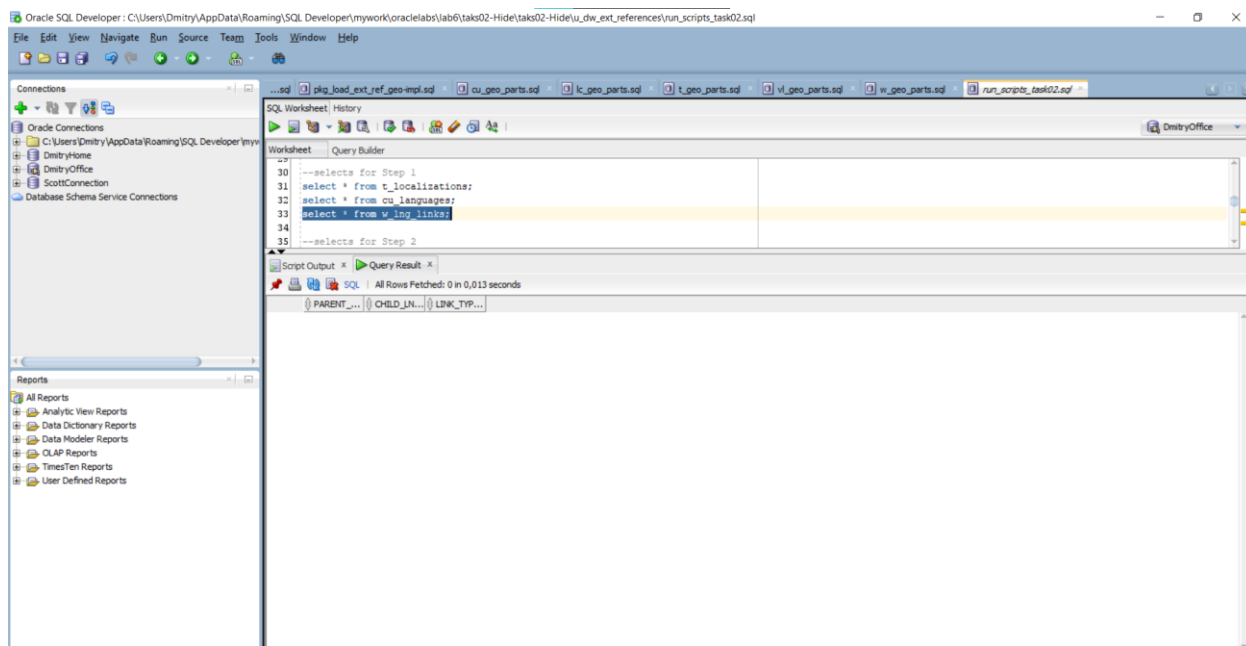


Рисунок 3 - w_lng_links

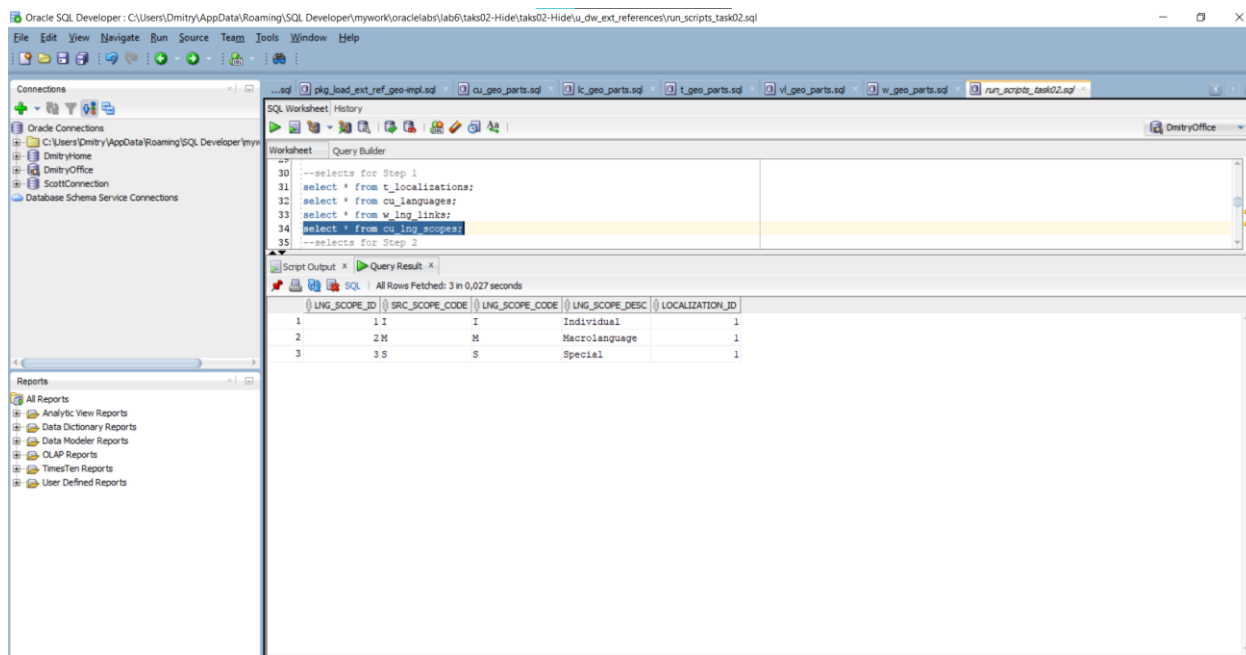


Рисунок 4 - cu_lng_scopes

Oracle SQL Developer: C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Oracle Connections
 - C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql
 - DmitryOffice
 - ScottConnection
- Database Schema Service Connections

SQL Worksheet: History

Worksheet Query Builder

```

31 select * from t_localizations;
32 select * from cu_languages;
33 select * from v_lng_links;
34 select * from cu_lng_scopes;
35 select * from cu_lng_types;
36

```

Script Output x Query Result x

SQL | All Rows Fetched: 6 in 0,02 seconds

LNG_TYPE_ID	SRC_TYPE_CODE	LNG_TYPE_CODE	LNG_TYPE_DESC	LOCALIZATION_ID
1	5 L	L	Living	1
2	6 S	S	Special	1
3	4 H	H	Historical	1
4	3 E	E	Extinct	1
5	2 C	C	Constructed	1
6	1 A	A	Ancient	1

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Рисунок 5 - cu_lng_types

Oracle SQL Developer: C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql

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Connections

- Oracle Connections
 - C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql
 - DmitryOffice
 - ScottConnection
- Database Schema Service Connections

SQL Worksheet: History

Worksheet Query Builder

```

33 select * from v_lng_links;
34 select * from cu_lng_scopes;

```

Script Output x Query Result x

SQL | All Rows Fetched: 43 in 1,126 seconds

OWNER	TABLE_NAME	TABLESPACE_NAME	CLUSTER_NAME	IOT_NAME	STATUS	PCT_FREE	PCT_USED	IN_TRANS	MAX_TRANS	INITIAL_EXTENT
U_DW_EXT_REFERENCES	CLS_GEO_COUNTRIES_ISO3166	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_EXT_REFERENCES	CLS_GEO_COUNTRIES2_ISO3166	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	T_GEO_OBJECTS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_EXT_REFERENCES	CLS_GEO_STRUCTURE_ISO3166	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_EXT_REFERENCES	CLS_CNTR_STRUCTURE_ISO3166	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_EXT_REFERENCES	CLS_CNTR_GROUPING_ISO3166	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_GEO_SYSTEMS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_GEO_PARTS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_GEO_REGIONS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_CNTR_GROUP_SYSTEMS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_CNTR_GROUPS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_CNTR_SUB_GROUPS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_COUNTRIES	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	T_LOCALIZATIONS	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_EXT_REFERENCES	CLS_LANGUAGES_ISO639	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_LANG_SCOPES	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	LC_LANG_TYPES	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	SYS_IOT_OVER_67801	TS_REFERENCES_DATA_01	(null)	T_GEO_TYPES	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	T_ADDRESSES	TS_DW_DATA_01	(null)	(null)	VALID	10	(null)	1	255	(null)
U_DW_EXT_REFERENCES	CLS_LANG_MACRO2IND_ISO639	TS_REFERENCES_EXT_DATA_01	(null)	(null)	VALID	10	(null)	1	255	(null)
U_DW_EXT_REFERENCES	T_EXT_LANG_MACRO2IND_ISO639	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_EXT_REFERENCES	T_EXT_LANGUAGES_ISO639	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_EXT_REFERENCES	T_EXT_CNTR_GROUPING_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_EXT_REFERENCES	T_EXT_GEO_COUNTRIES_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Oracle SQL Developer: C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections: Oracle Connections, C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql, DmitryOffice, ScottConnection, Database Schema Service Connections

SQL Worksheet: History

Worksheet: Query Builder

34 select * from cu_lng_links;

Script Output: Query Result

SQL: All Rows Fetched: 43 in 1,126 seconds

OWNER	TABLE_NAME	TABLESPACE_NAME	CLUSTER_NAME	IOT_NAME	STATUS	PCT_FREE	PCT_USED	IN_TRANS	MAX_TRANS	INITIAL_EXTENT
U_DW_REFERENCES	STD_IOT_OVER_67001	TS_REFERENCES_DATA_01	(null)	T_GEO_TYPES	VALID	10	(null)	1	255	163840
U_DW_REFERENCES	T_ADDRESSES	TS_DW_DATA_01	(null)	(null)	VALID	10	(null)	1	255	(null)
U_DW_REFERENCES	CLS_LNG_MACRO2ING_ISO693	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	(null)
U_DW_REFERENCES	T_LNG_LINKS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_EXT_LANGUAGES_ISO693	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_CNTR_GROUPING_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_EXT_GEO_COUNTRIES_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_EXT_GEO_STRUCTURE_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_CNTR2STRUCTURE_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_EXT_GEO_COUNTRIES2_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_CNTR2GROUPING_ISO3166	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_LNG_LINKS	(null)	(null)	(null)	VALID	(null)	(null)	(null)	(null)	(null)
U_DW_REFERENCES	T_GEO_SYSTEMS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_GEO_PARTS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_LANGUAGES	(null)	(null)	(null)	VALID	(null)	(null)	(null)	(null)	(null)
U_DW_REFERENCES	T_CNTR_SUB_GROUPS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_GEO_REGIONS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_CNTR_GROUPS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_GEO_OBJECT_LINKS	(null)	(null)	(null)	VALID	(null)	(null)	(null)	(null)	(null)
U_DW_REFERENCES	T_LNG_SCOPES	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_LNG_TYPES	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_CNTR_GROUP_SYSTEMS	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_COUNTRIES	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_GEO_TYPES	(null)	(null)	(null)	VALID	0	0	0	0	(null)
U_DW_REFERENCES	T_ADDRESS_TYPES	TS_REFERENCES_DATA_01	(null)	(null)	VALID	10	(null)	1	255	(null)

Рисунок 6 - All created tables

Oracle SQL Developer: C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql

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Connections: Oracle Connections, C:\Users\Dmitry\AppData\Roaming\SQL Developer\mywork\oracelab\lab6\task02-Hide\task02-Hide\dw_ext_references\run_scripts_task02.sql, DmitryOffice, ScottConnection, Database Schema Service Connections

SQL Worksheet: History

Worksheet: Query Builder

34 select * from cu_lng_links;

35 select * from cu_lng_types;

36

37 select * from sys.all_tables

Script Output: Query Result

SQL: All Rows Fetched: 34 in 0,17 seconds

OWNER	VIEW_NAME	TEXT_LENGTH	TEXT
U_DW_REFERENCES	CU_LANGUAGES	293	SELECT lng_id , lng_3c_code , lng_2b_code , lng_2t_code , lng_lc_code , lng_sco
U_DW_REFERENCES	W_LANGUAGES	163	SELECT lng_id , lng_3c_code , lng_2b_code , lng_2t_code , lng_lc_code , lng_sco
U_DW_REFERENCES	W_LNG_LINKS	77	select parent_lng_id, child_lng_id, link_type_id from t_lng_links
U_DW_REFERENCES	W_LNG_SCOPES	67	SELECT lng_scope_id , lng_scope_code FROM t_lng_scopes
U_DW_REFERENCES	VL_LNG_SCOPES	107	SELECT lng_scope_id , lng_scope_code , lng_scope_desc , localization_id FROM lc_lng_scopes
U_DW_REFERENCES	W_LNG_TYPES	88	SELECT t_lng_types.lng_type_id , t_lng_types.lng_type_code FROM t_lng_types
U_DW_REFERENCES	VL_LNG_TYPES	103	SELECT lng_type_id , lng_type_code , lng_type_desc , localization_id FROM lc_lng_types
U_DW_REFERENCES	W_LOCALIZATIONS	173	SELECT localization_id , localization_code , localization_desc , localization_desc_ens , lng_id
U_DW_REFERENCES	CU_LNG_SCOPES	430	SELECT src.lng_scope_id , src.lng_scope_code AS src_scope_code , NVL (lc.lng_scope_code , '-') AS lng_sco
U_DW_REFERENCES	CU_LNG_TYPES	419	SELECT src.lng_type_id , src.lng_type_code AS src_type_code , NVL (lc.lng_type_code , '-') AS lng_type_co
U_DW_REFERENCES	W_GEO_TYPES	79	SELECT geo_type_id , geo_type_code , geo_type_desc FROM t_geo_types
U_DW_REFERENCES	W_GEO_OBJECTS	72	SELECT geo_id , geo_type_id , geo_code_id FROM t_geo_objects
U_DW_REFERENCES	W_GEO_OBJECT_LINKS	86	SELECT parent_geo_id , child_geo_id , link_type_id FROM t_geo_object_links
U_DW_REFERENCES	W_CNTR_GROUP_SYSTEMS	67	SELECT geo_id , grp_system_id FROM t_cntr_group_systems
U_DW_REFERENCES	VL_CNTR_GROUP_SYSTEMS	132	SELECT geo_id , grp_system_id , grp_system_code , grp_system_desc , localization_id FROM lc_cntr_g
U_DW_REFERENCES	CU_CNTR_GROUP_SYSTEMS	430	SELECT src.geo_id , src.grp_system_id AS grp_system_id , NVL (lc.grp_system_code , '-') AS grp_system_co
U_DW_REFERENCES	VL_CNTR_GROUPS	55	SELECT geo_id , group_id FROM t_cntr_groups
U_DW_REFERENCES	W_CNTR_GROUPS	110	SELECT geo_id , group_id , group_code , group_desc , localization_id FROM lc_cntr_groups
U_DW_REFERENCES	VL_CNTR_GROUPS	386	SELECT src.geo_id , src.group_id AS group_id , NVL (lc.group_code , '-') AS group_code , NVL (lc.gro
U_DW_REFERENCES	W_CNTR_SUB_GROUPS	63	SELECT geo_id , sub_group_id FROM t_cntr_sub_groups
U_DW_REFERENCES	VL_CNTR_SUB_GROUPS	126	SELECT geo_id , sub_group_id , sub_group_desc , localization_id FROM lc_cntr_sub
U_DW_REFERENCES	CU_CNTR_SUB_GROUPS	418	SELECT src.geo_id , src.sub_group_id AS sub_group_id , NVL (lc.sub_group_code , '-') AS sub_group code

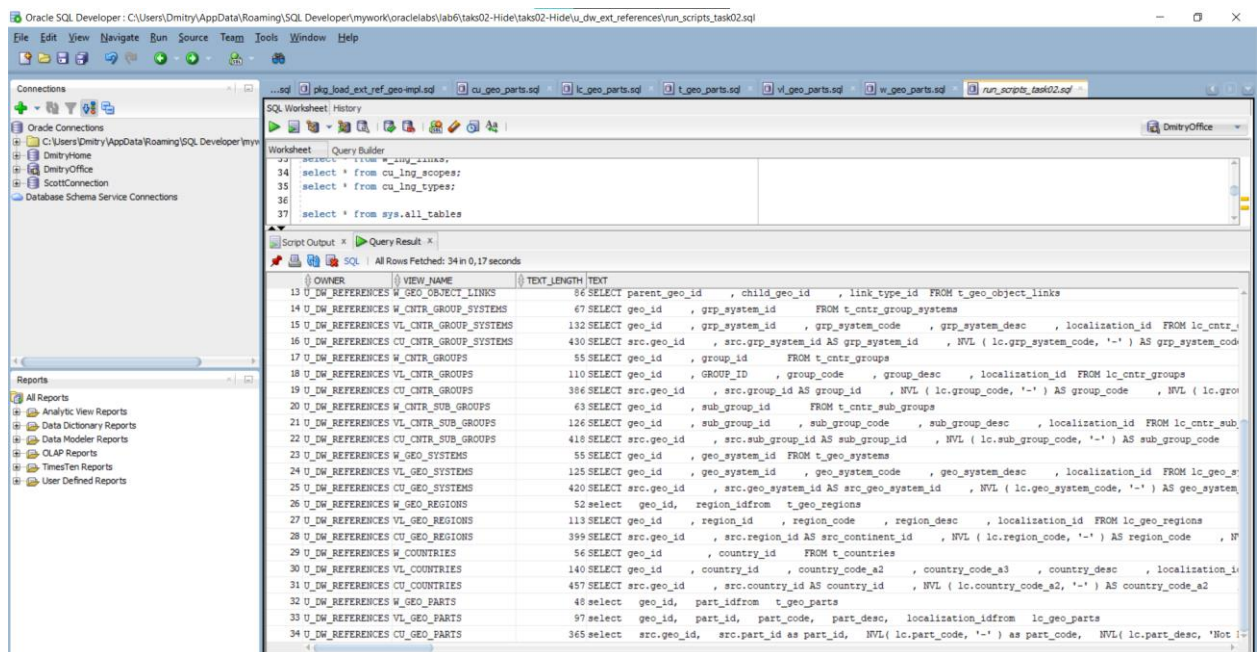


Рисунок 7 - All created views

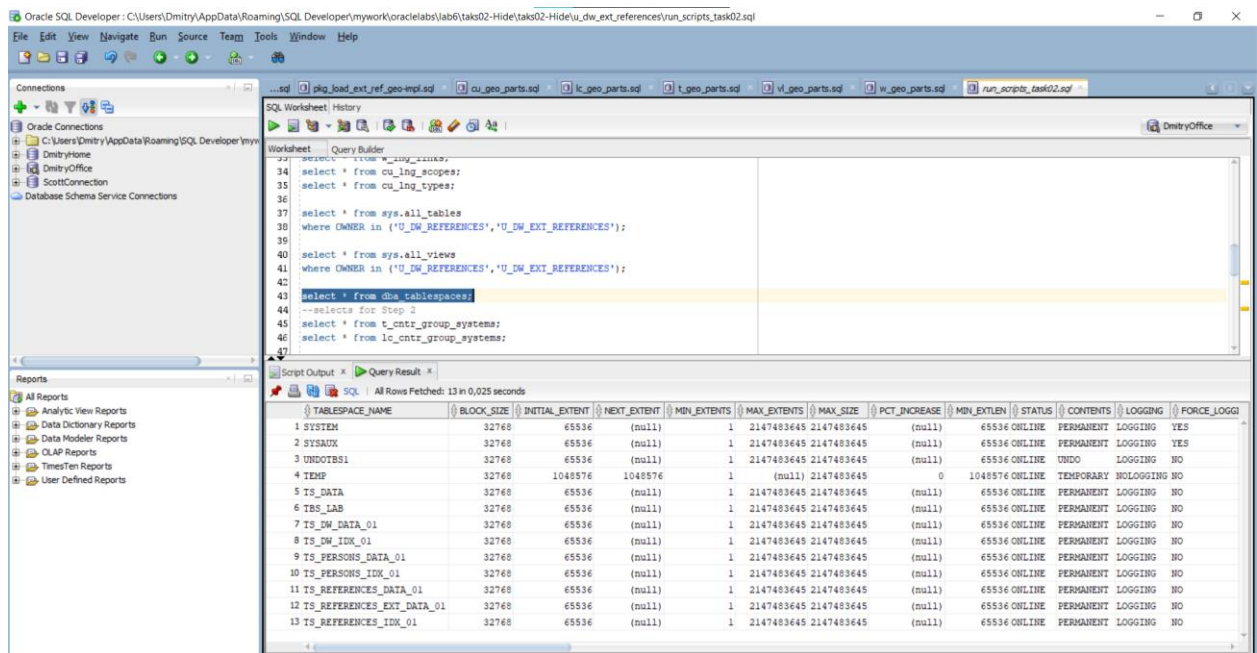


Рисунок 8 - All created tablespaces

Data Flow Diagram

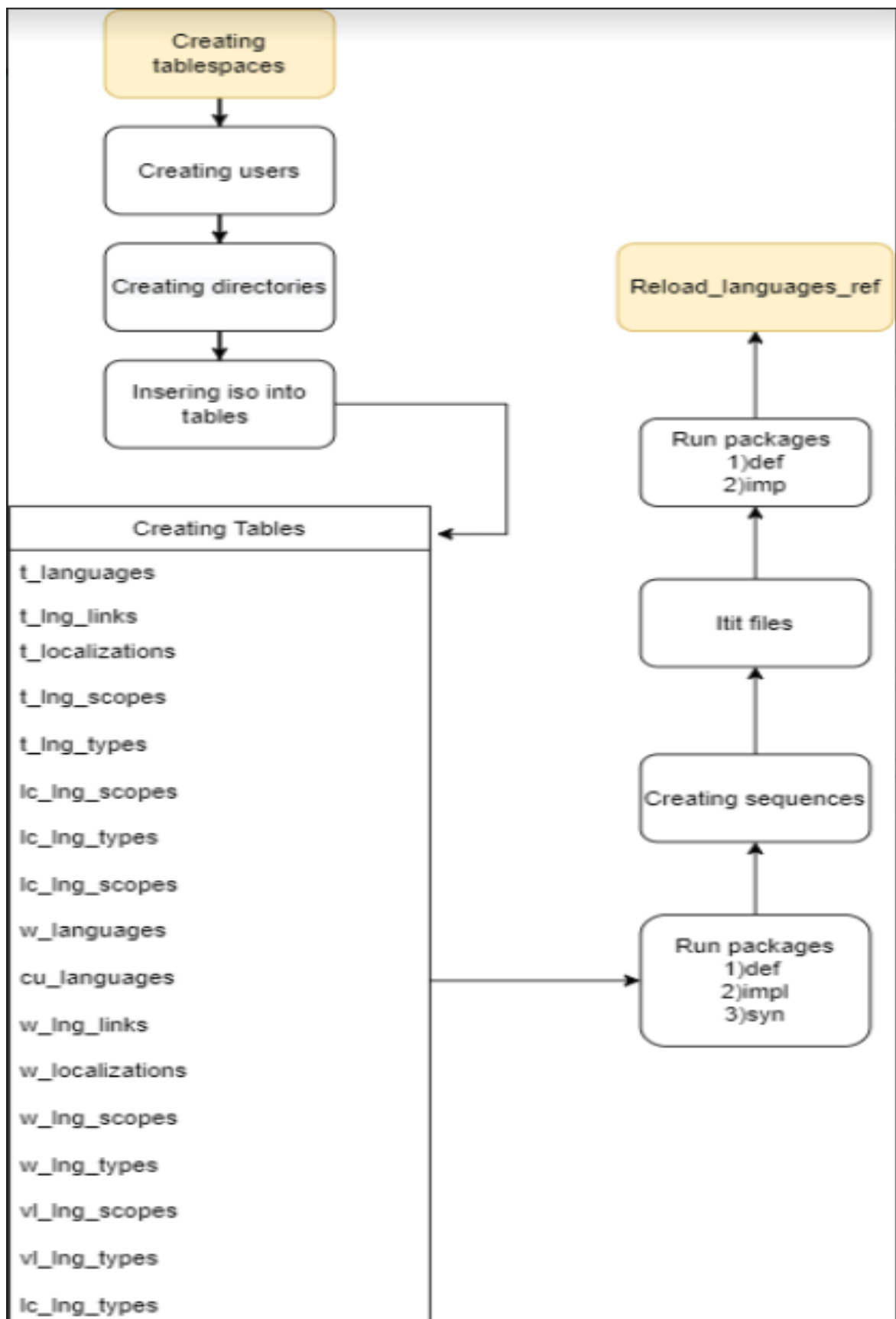


Рисунок 9 – DFD

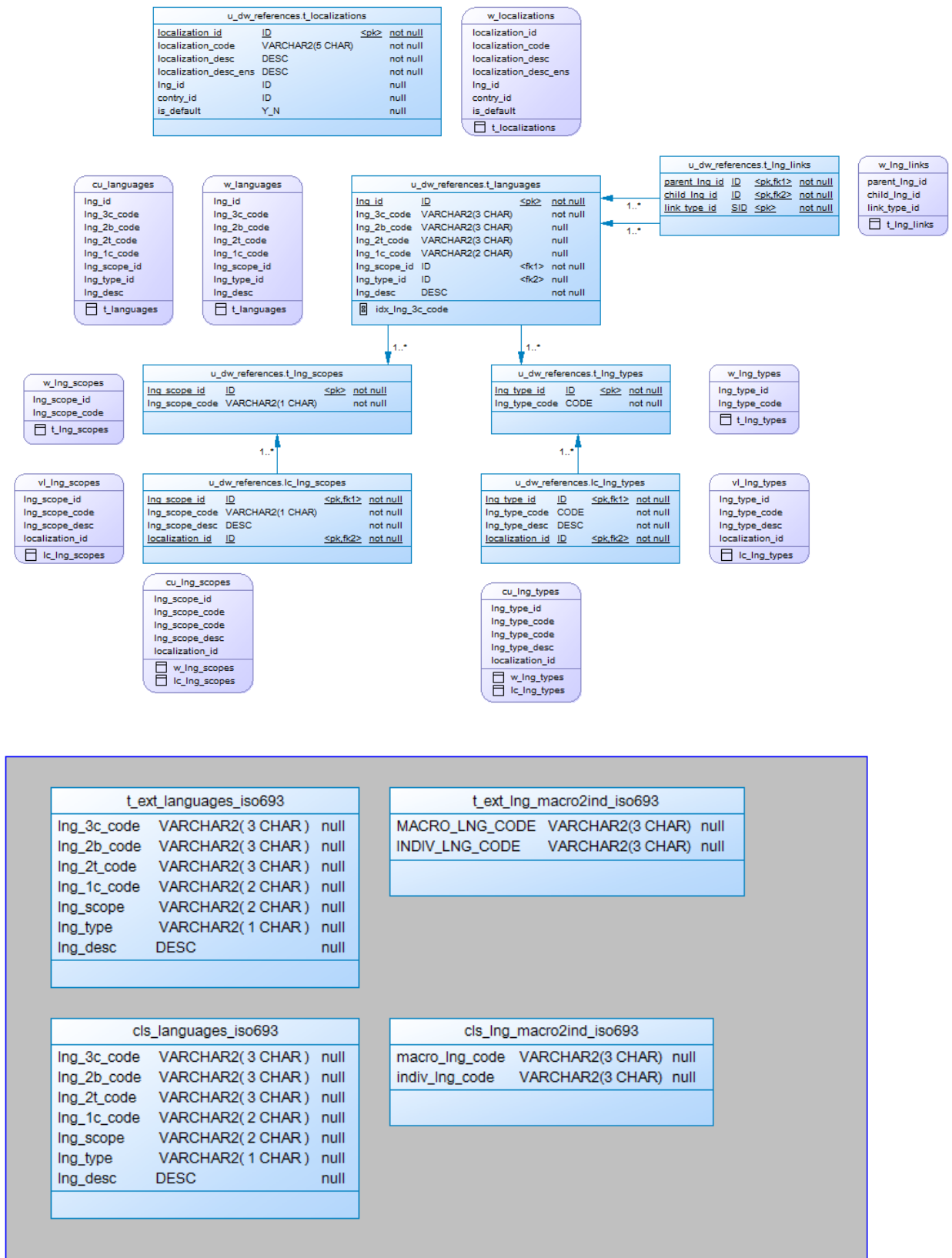


Рисунок 10 – T_languages Physical Diagram

Task 02 – Create load process for External references T_Countries

The Main Task is to develop SQL scripts and install needed objects for load external reference T_Countries.

Task Results:

- Create SQL scripts to show All created Tables and Views – Screenshot
- Create DataFlow: Sketch Diagram of loading external References (MS Visio, MS Paint, MS Word, etc.)
- Create SQL: Showing result of data on main objects:
- Prepare The Physical Diagram of T_Countries

```
alter session set current_schema = u_dw_references;
```

```
--selects for Step 2
```

```
select * from t_cntr_group_systems;
```

```
select * from lc_cntr_group_systems;
```

```
select * from t_cntr_groups;
```

```
select * from lc_cntr_groups;
```

```
select * from t_cntr_sub_groups;
```

```
select * from lc_cntr_sub_groups;
```

```
select * from t_countries;
```

```
select * from lc_countries;
```

```
select * from t_geo_object_links;
```

```
select * from t_geo_objects;
```

```
select * from t_geo_parts;
```

```
select * from lc_geo_parts;
```

```
select * from t_geo_regions;
```

```
select * from lc_geo_regions;
```

```
select * from t_geo_systems;
```

```
select * from lc_geo_systems;
```

```
select * from t_geo_types;
```

```
select * from t_addresses;
```

```
select * from t_address_types;
```


Laboratory work summary:

At this laboratory work, we touched principals of (re)building schemas, used our knowledge in practice and saw how DFD and physical diagrams can help in understanding of schema building.