Lab report #3

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

Task 1 - Export Geo Location Reference

Create tablespace and user for working with the table by location.

```
CREATE TABLESPACE geo_denormalized_t
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_geo_denormalized_t.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER SB_MBackUp
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE geo_denormalized_t;

GRANT CONNECT,RESOURCE TO SB_MBackUp;
GRANT SELECT ANY TABLE TO SB_MBackUp;

ALTER USER SB_MBackUp QUOTA UNLIMITED ON geo_denormalized_t;
```

Script Output | Task completed in 0,043 seconds

```
TABLESPACE GEO_DENORMALIZED_T created.

User SB_MBACKUP created.

Grant succeeded.
```

Create demormalized table using CONNECT BY containing additional columns from the task

```
CREATE TABLE SB_MBackUp.geo_denormalized_tab
TABLESPACE geo_denormalized_t
AS
SELECT pgid.cid
     , pgid.pid
     , pgid.link_type_id
     , pgid.id_type
     , pgid.lev_count
     , pgid.geo_path
     , cnt.country_id
     , cnt.region_desc AS country_name
     , prt.part_desc
     , reg.region_desc
  FROM (  SELECT country_geo_id
```

Script Output | Task completed in 0,153 seconds

```
Table SB_MBACKUP.GEO_DENORMALIZED_TAB created.
```

Select from denormalized table.

```
SELECT * FROM SB_MBackUp.geo_denormalized_tab;
```

Script Output | Query Result | Fetched 50 rows in 0,038 seconds

	CID	PID	LINK_TYPE_ID	ID_TYPE	LEV_COUNT	GEO_PATH	COUNTRY_ID	COUNTRY_NAME	PART_DESC
1	484	483	1	ROOT	3	:483	(null)	(null)	(null)
2	502	484	2	BRANCH	14	:483:484	(null)	(null)	(null)
3	242	502	3	LEAF	(null)	:483:484:502	328	Guyana	Latin America and the
4	273	502	3	LEAF	(null)	:483:484:502	68	Bolivia (Plurinational State of)	Latin America and the
5	278	502	3	LEAF	(null)	:483:484:502	862	Venezuela (Bolivarian Republic of)	Latin America and the
6	355	502	3	LEAF	(null)	:483:484:502	76	Brazil	Latin America and the
7	359	502	3	LEAF	(null)	:483:484:502	600	Paraguay	Latin America and the
8	362	502	3	LEAF	(null)	:483:484:502	238	Falkland Islands (Malvinas)	Latin America and the
9	375	502	3	LEAF	(null)	:483:484:502	740	Suriname	Latin America and the
10	401	502	3	LEAF	(null)	:483:484:502	604	Peru	Latin America and the
11	407	502	3	LEAF	(null)	:483:484:502	218	Ecuador	Latin America and the
12	410	502	3	LEAF	(null)	:483:484:502	170	Colombia	Latin America and the
13	413	502	3	LEAF	(null)	:483:484:502	152	Chile	Latin America and the
14	418	502	3	LEAF	(null)	:483:484:502	254	French Guiana	Latin America and the
15	463	502	3	LEAF	(null)	:483:484:502	32	Argentina	Latin America and the
16	478	502	3	LEAF	(null)	:483:484:502	858	Uruguay	Latin America and the

```
SELECT * FROM SB_MBackUp.geo_denormalized_tab;
```

Script Output | Query Result

SQL | Fetched 50 rows in 0,038 seconds

	LINK_TYPE_ID	ID_TYPE	LEV_COUNT	GEO_PATH	COUNTRY_ID	COUNTRY_NAME	PART_DESC	REGION_DESC
1	1	ROOT	3	:483	(null)	(null)	(null)	(null)
2	2	BRANCH	14	:483:484	(null)	(null)	(null)	(null)
3	3	LEAF	(null)	:483:484:502	328	Guyana	Latin America and the Caribbean	South America
4	3	LEAF	(null)	:483:484:502	68	Bolivia (Plurinational State of)	Latin America and the Caribbean	South America
5	3	LEAF	(null)	:483:484:502	862	Venezuela (Bolivarian Republic of)	Latin America and the Caribbean	South America
6	3	LEAF	(null)	:483:484:502	76	Brazil	Latin America and the Caribbean	South America
7	3	LEAF	(null)	:483:484:502	600	Paraguay	Latin America and the Caribbean	South America
8	3	LEAF	(null)	:483:484:502	238	Falkland Islands (Malvinas)	Latin America and the Caribbean	South America
9	3	LEAF	(null)	:483:484:502	740	Suriname	Latin America and the Caribbean	South America
10	3	LEAF	(null)	:483:484:502	604	Peru	Latin America and the Caribbean	South America
11	3	LEAF	(null)	:483:484:502	218	Ecuador	Latin America and the Caribbean	South America
12	3	LEAF	(null)	:483:484:502	170	Colombia	Latin America and the Caribbean	South America
13	3	LEAF	(null)	:483:484:502	152	Chile	Latin America and the Caribbean	South America
14	3	LEAF	(null)	:483:484:502	254	French Guiana	Latin America and the Caribbean	South America
15	3	LEAF	(null)	:483:484:502	32	Argentina	Latin America and the Caribbean	South America
16	3	LEAF	(null)	:483:484:502	858	Uruguay	Latin America and the Caribbean	South America

Task 2 - Analyze Business hierarch Reference Analyses

```
SELECT /*+inline gather_plan_statistics */
    level
    ,   lpad(' ', 2*(level-1)) || job_title  job_title
    ,   first_name || '  ' || last_name as employee_name
    ,   CONNECT_BY_ROOT job_title AS root
    ,   SYS_CONNECT_BY_PATH(job_title, ':') path
FROM sa_restaurants.sa_t_employee
WHERE CONNECT_BY_ROOT job_title='director'
CONNECT BY NOCYCLE PRIOR job_title_child_id=job_title_parent_id
START WITH job_title_parent_id IS NULL;
```

Query Result

SQL | All Rows Fetched: 25 in 0,019 seconds

	LEVEL	JOB_TITLE	EMPLOYEE_NAME	ROOT	PATH
1	1	director	Adriana Karnitskaya	director	:director
2	2	manager	Ada Alymova	director	:director:manager
3	3	employee	Alice Lysenko	director	:director:manager:employee
4	3	employee	Alyssa Malysheva	director	:director:manager:employee
5	3	employee	Anna Buynova	director	:director:manager:employee
6	1	director	Christina Mayorova	director	:director
7	2	manager	Clara Zaykova	director	:director:manager
8	3	employee	Veronika Sadovskaya	director	:director:manager:employee
9	3	employee	Eva Moshko	director	:director:manager:employee