## Report

Laboratory Work 3

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## 1. Prerequisites

#### 1.1. 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%"	

#### 1.2. Folder Paths Index

Path Group	Path Description	Path	
Operation	Oracle RDBMS - BIN	/oracle/app/oracle	
System			
	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	

## 2. Business analysis tasks – Reports

## 2.1. Task 01: Export Geo Location Reference

The Main Task is to export Geo Location Reference on Denormalized table.

Create Denormalized export table on SB\_MBackUp schema.

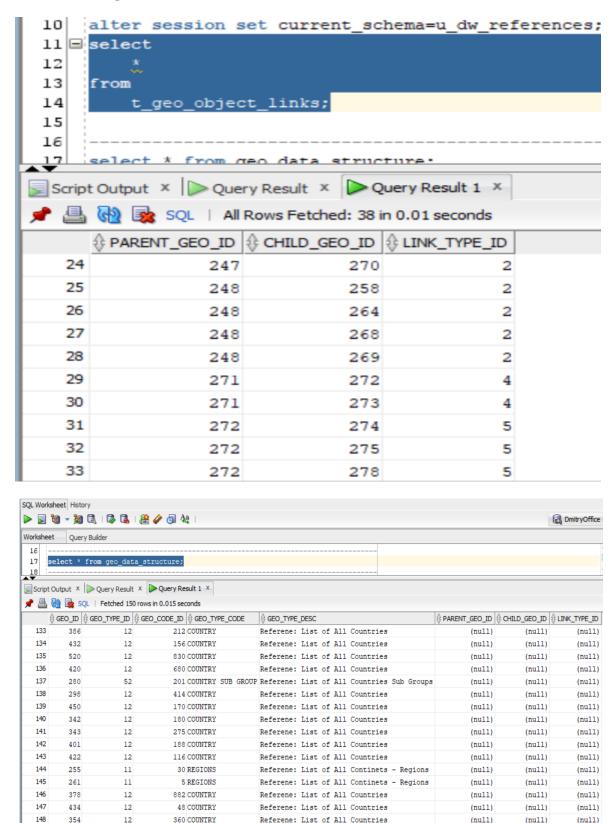
## **Required points:**

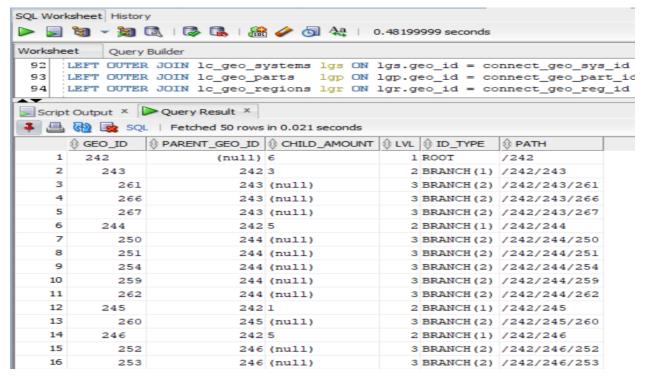
- Create Denormalized table data using CONNENT\_BY
- $\bullet \ \ Add \ Additional \ Columns \ to \ table: \backslash$

Geo\_id types: Branch, ROOT, Leaf

Count of childs of Branch or Root, for Leafs this Field you have fill by NULL

## Full path of Dependencies by Example: ROOT -> BRANCH -> BRANCH -> LEAF





#### Task Results:

#### **Create required objects:**

- Create New Schema SB\_MBackUp and New Default TableSpace
- Put objects script to Git.

```
Worksheet
          Query Builder
     CREATE USER SB MBackUp
       IDENTIFIED BY "%PWD%"
         DEFAULT TABLESPACE ts_sa_customers_data_001;
  3
  4
     GRANT UNLIMITED TABLESPACE TO SB MBackUp;
  5
  6
  7
  8
  9
     alter session set current schema=u dw_references;
 11 select
 12
 13 from
          t_geo_object_links;
 14
Script Output × Query Result × Query Result 1 × Query Result 2 ×
📌 🥟 🔡 🖺 🔋 | Task completed in 0.375 seconds
User SB MBACKUP created.
Grant succeeded.
Session altered.
```

- Prepare Document with Screenshot of Data on Denormalized table
- Prepare load script and put it to GIT

## 2.2. Task 02: Analyze Business hierarchy Reference Analyses

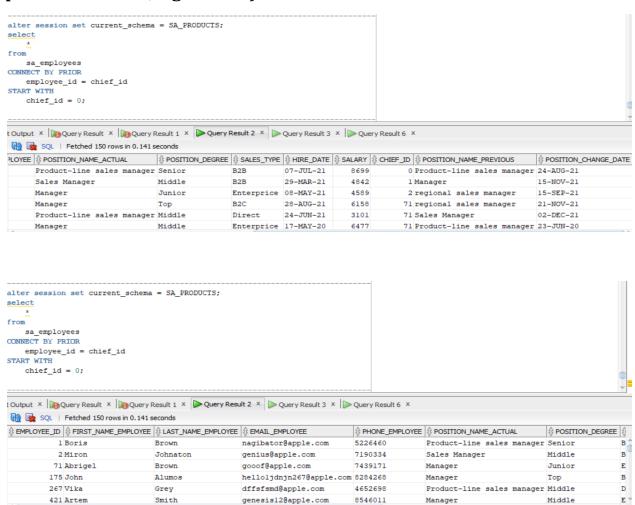
The Main Task is to create hierarch analyses of any Dimension, according yours Solution Proposal and DWH Solution Concept from Module 6. Introduction to DWH

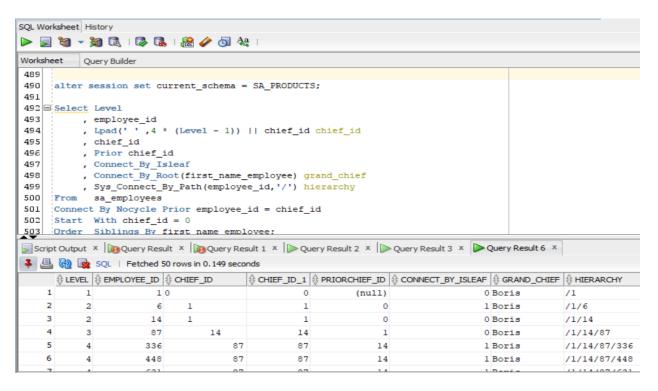
## **Required points:**

- Create Denormalized table data using CONNENT\_BY
- Use START WITH Clause
- Use CONNECT\_BY\_ROOT to analyses any Branch levels
- Analyze Main Root Branch, and 2 Sub Branches

```
CREATE TABLE SA EMPLOYEES (
                                           CREATE TABLE SA EMPLOYEES (
                                              employee id
                                                                 NUMBER(5) not null,
                    VARCHAR2 (40) NOT NULL,
    first name
                                              first_name_EMPLOYEE VARCHAR2 (40) NOT NULL,
                    VARCHAR2 (40) NOT NULL,
    last name
                    VARCHAR2 (40) NOT NULL, phone_EMPLOYEE VARCHAR2 (40) NOT NULL,
    email
                                             POSITION_NAME_ACTUAL VARCHAR2 (40) NOT NULL,
                   VARCHAR2 (40) NOT NULL, POSITION DEGREE VARCHAR2 (40) NOT NULL,
    phone
                                             SALES_TYPE
                                                                VARCHAR2 (40) NOT NULL,
    POSITION NAME VARCHAR2 (40) NOT NULL,
                                              HIRE_DATE
                                                                DATE NOT NULL,
                                                                 int not null,
                                              salarv
    POSITION GRADE VARCHAR2 (40) NOT NULL,
                                              chief id
                                                                 int not null,
                                               position_name_previous VARCHAR2(40) NOT NULL,
    HIRE DATE
                    DATE NOT NULL
                                               position_change_date
                                                                 DATE not null
```

# Here, as you san see, I added more data into sa\_employees table (Left - previous version, right - new)





**In the pictures above** you can see how **employees** related with **chiefs**. And who is a chief for every employee, who is a **grand chief** and their 4 - staged **hierarchy**.

#### **Task Results:**

## **Create required objects:**

- Prepare Document with Screenshot of analyses Data result
- Prepare script and put it to GIT

*Note.* All scripts stored on GitHub.

## Laboratory work summary:

**At this lab** we have learned how we can carry out a hierarchy schema using different statements, such as:

- Connect\_by
- Connect\_by\_root

**Specified with** such clauses as **Start With** and **Level** pseudocolumn which shows parent and child rows. **Now we have** much more understanding about hierarchy usage.