Report

Laboratory Work 1

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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 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 |
|  |  |  |
|  |  |  |

# Data Warehouse Architecture – Storage Layers

## 2.1. Task 01: CREATE Storage Objects

**The Main Task** is to create Physical Objects according yours Solution Proposal that was developed on Module 6 – Oracle DB. Introduction to DWH.

Now I created DDL’s for all tables, except of fact table, of course:)

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated

Picture 1 - Creating calendar and customer tables

A screenshot of a computer

Description automatically generated with medium confidenceText

Description automatically generated

Picture 2 - Creating employees and payment methods tables

Text

Description automatically generated Text

Description automatically generated

Picture 3 – Creating products and stores tables

Graphical user interface, text

Description automatically generated with medium confidence Table

Description automatically generated

Picture 4 – DML

Graphical user interface, text, application

Description automatically generated

Picture 5 - Cross Joins on transaction with other tables

## 2.2. Task 02: Generate Test Data in Storage Layers

**The Main Task** is to generate test data on Storage layers objects, that was created on task 01.

Now I decided to generate more values data, which is also going to be more relevant, apart from previous DML scripts… (All DDL/DML Scripts stored on GitHub )

Graphical user interface, text, application

Description automatically generated

Picture 6 – Customers DML

Graphical user interface, text, application, email

Description automatically generated

Picture 7 - Employees DML

Graphical user interface, text, application

Description automatically generated

Picture 8 - Payment Method DML

Graphical user interface, text

Description automatically generated

Picture 9 - Produsts DML

Graphical user interface, text, application

Description automatically generated

Picture 10 - Calendar DML

Graphical user interface, text, application, email

Description automatically generated

Picture 11 - Store DML

Graphical user interface, text, application, email

Description automatically generated

Picture 12 - Transaction DML

Graphical user interface, application

Description automatically generated

Picture 13 - Transaction Table

Graphical user interface, text, application, email

Description automatically generated

Picture 14 - Count from Transaction

**Note: Corrected !:)**

Task 03: Create Group by Plan

**The Main Task** is to prepare ad hoc SQL for segregate data view on SA\_\* objects (Storage).

**Operations:**

* Select
* Group by
* Merge
* Group by

**Task Results:**

Graphical user interface, application

Description automatically generated

Picture 15 - Sales monthly amount with revenue

Graphical user interface, application

Description automatically generated

Picture 16 - Customers purchases grouped by total amount

**Laboratory work summary:**

**At this lab** we have learned how (and which opportunities) gives as Oracle in generating Data for test e.g. It is absolutely clear that generating so much data is not needed every time we have to test SA layer(but also can use back – end p.l. to generate them easily). Nevertheless, this type is also quite acceptable if we have to test smth not to use some Back techs. All diagrams and scripts are stored in GitHub (link in README file in Labs folder)