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U1M8.LW.Data Warehouse Architecture

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Contents

[1. Prerequisites 3](#_Toc43848721)

[1.1. Passwords Index 3](#_Toc43848722)

[1.2. Folder Paths Index 3](#_Toc43848723)

[2. Data Warehouse Architecture 3](#_Toc43848724)

[2.1. Task 01: CREATE Schema of simple Data Warehouse Architecture 3](#_Toc43848725)

[2.2. Task 02: CREATE Storage Level 4](#_Toc43848726)

[2.3. Task 03: CREATE Data warehouse Cleansing Level 4](#_Toc43848727)

[2.4. Task 04: CREATE Data warehouse Start Cleansing Level 5](#_Toc43848728)

[2.5. Task 05: CREATE Start Cleansing Level 5](#_Toc43848729)

[2.6. Task 06: CREATE Data warehouse Start Level and Data Marts 5](#_Toc43848730)

[3. Star – Business analyses task 6](#_Toc43848731)

[3.1. Task 07: CREATE Prepared Star Objects 6](#_Toc43848732)

[3.2. Task 08: DataFlow Diagram 6](#_Toc43848733)

[3.3. Task 09: Grants Object Privileges 6](#_Toc43848734)

# 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** |
|  |  |  |
|  |  |  |

# 2. Data Warehouse Architecture

## 2.1. Task 01: CREATE Schema of simple Data Warehouse Architecture

**The Main Task** is to create Diagram to describe yours simple Data Warehouse.

According yours Business Task (Solution Proposal) prepare naming conversation table for all levels of Data Warehouse.

**Task Results:**

Create document or Add chapter to Solution Concept, which contained next:

* Data Warehouse Architecture diagram
* Name Conversation table

|  |  |  |  |
| --- | --- | --- | --- |
| Level Type | Object Name | Tablespace | Desctiption |
| Storage level  SA\_\* | SA\_CUSTOMERS | ts\_sa\_customers\_data\_01 | Loading from Flatfile storage system. Contains Customer information |
| SA\_ORDERS | ts\_sa\_orders\_data\_01 | … |
| DW - Cleansing Level | DW\_CL |  |  |
| DW – Level |  |  |  |
| DW– Prepare Star Cleansing Level | SAL\_DW\_CL |  |  |
| STAR - Cleansing | SAL\_CL |  |  |
| STAR – Level | SAL |  |  |
| DM\_CUSTOMERS |  |  |
| DM\_ORDERS |  |  |
| … |  |  |

## 2.2. Task 02: CREATE Storage Level

**The Main Task** is to create Physical Objects According Diagram from task 01

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data Warehouse Architecture – Storage level Objects
* Scripts put on Git

## 2.3. Task 03: CREATE Data warehouse Cleansing Level

**The Main Task** is to create Physical Objects According Diagram from task 01

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data Warehouse Architecture – Data warehouse cleansing level Objects
* Scripts put on Git

## 2.4. Task 04: CREATE Data warehouse Start Cleansing Level

**The Main Task** is to create Physical Objects According Diagram from task 01

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data Warehouse Architecture – Data warehouse Star Cleansing level Objects
* Scripts put on Git

## 2.5. Task 05: CREATE Start Cleansing Level

**The Main Task** is to create Physical Objects According Diagram from task 01

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data Warehouse Architecture –Star Cleansing level Objects
* Scripts put on Git

## 2.6. Task 06: CREATE Data warehouse Start Level and Data Marts

**The Main Task** is to create Physical Objects According Diagram from task 01

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data Warehouse Architecture – Data warehouse Star and Data Marts level Objects
* Scripts put on Git

# 3. Star – Business analyses task

## 3.1. Task 07: CREATE Prepared Star Objects

**The Main Task** is to create Physical Objects according your Business Star, that was developed on Labwork 6, labwork 7.

**Task Results:**

Create scripts and edit scheme, which contained next:

* Data warehouse Star and Data Marts level Objects
* Scripts put on Git

## 3.2. Task 08: DataFlow Diagram

**The Main Task** is to create DataFlow Diagram to describe refresh process of yours Business STAR

**Task Results:**

Create DataFlow Diagram:

* Add chapter to Solution Concept with DataFlow Diagrams

## 3.3. Task 09: Grants Object Privileges

**The Main Task** is to grant all required Object Privileges to cleansing layers.

**Task Results:**

* Scripts put on Git
* Create screenshot with all granted privileges to DW\_CL, SAL\_CL\_DW, SAL\_CL layers.