**Alexander Korytko**

Task 8



Prerequisites Task Information

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

# Data Warehouse Architecture

## 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 |
| **STAGE AREA** | U\_SA\_USERS | ts\_sa\_users\_data\_01  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  LOGGING;) | Contains users information. U\_SA\_USERS user should be able to load data from source files, create tables and view in this area. Upload data from source files to these tables and views an send it to next area. |
| U\_SA\_OPERATIONS | ts\_sa\_operations\_data\_01  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  LOGGING;) | Contains information about operations and currencies.  U\_SA\_OPERATIONS user should be able to load data from source files, create tables and view in this area. Upload data from source files to these tables and views an send it to next area. |
| **DW CLEANSING AREA** | U\_DW\_CL | ts\_dw\_cl  (SIZE 200M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  NOLOGGING;) | Contains all information from stage area. We are cleaning our data before upload to DW. NOLOGGING because there are many not useful information for us. U\_DW\_CL user should be able to create tables and views , upload and select clean data. |
| **DATA WAREHOUSE AREA** | U\_DW | ts\_dw\_data\_01  (SIZE 300M  AUTOEXTEND ON NEXT 100M  SEGMENT SPACE MANAGEMENT AUTO  LOGGING;) | Contains clean and normalized data from DW CLEANING AREA. LOGGING should be enabled for this area. U\_DW user should be able to create Tables and views, and make possible to select data from DW cleansing area. |
| **STAR DW CLEANSING AREA** | U\_SAL\_DW\_CL | ts\_sal\_dw\_cl  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  NOLOGGING;) | There are data loaded from DW AREA. Create views from merged data of DWA.  U\_SAL\_DW\_CL user should able to select data from DW Area, create tables, delete some data from this tables, and create views with clean data for the next AREA. |
| **STAR CLEANSING AREA** | U\_SAL\_CL | ts\_sal\_cl  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  NOLOGGING;) | Loading data from SAL-DW-CL AREA and then removing all not useful data. Consist view like in previous area, but only with data for our analysis. There should be only data with are useful for our analysis.  U\_SAL\_CL user should be able to select data from the view on STAR DW CLEANSING AREA, create tables and view (view for STAR AREA) and insert data to these tables and view. |
| **STAR AREA** | U\_STR\_DATA | ts\_ str\_data  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  LOGGING;) | Receiving data from STAR CLEANSING AREA. There are data for the FACT Tables. U\_STR\_DATA user should be able to select data from tables and view from STAR CLEANSING AREA and create tables and view for data marts |
| U\_STR\_REFERENCES | ts\_ str\_references  (SIZE 100M  AUTOEXTEND ON NEXT 50M  SEGMENT SPACE MANAGEMENT AUTO  LOGGING;) | Receiving data from STAR CLEANSING AREA. There are data for the DIMENSIONS Tables. U\_STR\_REFERENCES user should be able to select data from tables and view from STAR CLEANSING AREA and create tables and view for data marts |

## 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

## 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

## 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

## 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

## 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

# Star – Business analyses task

## Task 07: CREATE Prepared Start 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

## Task 09: 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

## 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.

See last Table with descriptions of user roles and SQL scripts in attachments