ReadMe For Data Warehouse

Building and Analysing DW

DOCUMENT#	1
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Overview

DESCRIPTION
Datawarehouse for FreshOrganic NZ

Data Warehouse project to design, implement and analyse a Data Warehouse (DW) for FreshOrg anic, one of the biggest supermarket chains in NZ.

Getting Started

TOOL
ORACLE – sql Developer

This project comprises four files.

- createDW - SQL
- INLJ - PL/SQL
- QueriesDW – SQL
- ProjectReport – PDF

VIRSION
Oracle Database 10g Enterprise Edition Release 10.2.0.5.0 - Prod *PL/SQL Release 10.2.0.5.0 - Production* *"CORE 10.2.0.5.0 Production"* *TNS for Linux: Version 10.2.0.5.0 - Production* *NLSRTL Version 10.2.0.5.0 - Production*

A Step by Step Guide To Operate This Project

A: Connection

1. Open the SQL DEVELOPER
2. Connect to the Oracle server:

B: Accessing files

1. Download all files.
2. Unzip all files.
3. Look at Read me file for more information about the files.

C: Run files on sqlDeveloper

1. First run createDW.sql script file to create star schema.
2. Second, run INLJ.sql file to perform ETL on transaction and master data by implementing INLJ algorithm to load the records on DW.

D: DWAnalysis 2014

Run queriesDW.sql for all DW analysis in 2014:

1. **Question 1**

Determine the rop 3 products in Dec 2014 In terms of total sale.

Query for question 1
Run line 5 - 15

2. **Question 2**

Determine which store produced highest sales in the whole year?

Query for question 2
Run line 19 - 24

3. **Question 3**

How many sales transactions were there for the product that generated maximun sales revenue in

2014? Also identify:

a) product quantity sold, and
b) supplier name

Query for question 3
Run line 30 -39

4. **Question 4**

Present the quarterly sales analysis for all stores using drill down query concepts?

Query for question 4
Run line 44 - 63

5. **Question 5**

Determine the top 3 products for particular month (say Dec 2014), and for each of the 2 months before that, in terms of total sales.

Query for question 5
Run line 68 - 90

6. **Question 6**

Create a materialized view called "STOREANALYSIS" that presents that product-wise sales analysis for each store.

Query for question 6
Run line 94 - 105

7. **Question 7**

Think about what information can be retrieved from the materialized view created in Q6 using ROLLUP OR CUBE concept and provide some useful information of your choice for management.

Query for question 7
Run line 113 - 124