Lab 5: OLAP Exercises

# 1. Overview

It’s time for you to complete the OLAP queries on your own.

We will continue to use the data mart file from the last lab. If you have lost this file, please refer to Lab 3 to retrieve the file.

# 2. Exercises

Query 5.1a: Show the sales receipts and quantity by product category in Dec 2010.

Query 5.1b: Show the sales quantity by product category and by store country.

Query 5.1c: Show the sales receipts and gross margin ratio of the brand 'better' in the USA states ‘CA’ and ‘WA’. Break down the number by states and product category.

Query 5.1d: Show the monthly sales quantity of products of type 'pancakes' and 'coffee' to male customer in stores in cities 'Los Angeles' and 'Beverly Hills' in Jul-Dec of 2010. Break down the numbers by month and product type.

Query 5.1e: What are the average prices of products of type ‘Soda’ sold in 2010? Show the average price by customer’s occupation.

Query 5.1f: What are the total sales receipt of the product category ‘Beer and Wine’ in 2010? Break down the numbers by customer gender and marital status.

Query 5.1g: What are the total sales receipt in 2010, broken down by month, quarter, product family and product department?

Query 5.1h: What is the average daily receipts on Sunday’s in 2010? What is the average daily receipts in 2010, broken down by day-of-week?

Query 5.1i: For each product category, find the total quantity sold for each product brand. Sort the brands in the best-selling order.