Data-Warehouse-Technologien
Exercise 8

Exercise 1: How can cubes in general be calculated efficiently? What is an Iceberg-Cube?

Exercise 2: Describe briefly the OLAP functions defined in SQL:2003 from the lecture.

Exercise 3: Formulate the following SQL queries with the created data warehouse:

1. Compute the variance of the monthly sales figures (L.QUANTITY) between 1994 and 1996 for each product type (P.TYPE).
2. Compute the sales figures of products of the product type "SMALL POLISHED COPPER" based on the year and the origin of customers. Formulate the query once using the CUBE-operator and another time using the ROLLUP-operator.
3. Determine the 2 products that generated the highest revenue (L.EXTENDEDPRICE) for each Nation.
4. Compute the fraction of each state on the overall sales in 1996.