IS 466: Decision Support Systems

Let us consider a data cube of shops supply chain with three dimensions: Product, Time, Shop and one measure quantity. The dimension Product contains information about itemName, brand and type. The hierarchy of the dimension Shop contains shopName, street, city and country. However the dimension Time records data about day, week, month quarter and year.

1. Give a full snowflake schema for the shops supply cube.
2. Give query samples for the OLAP operations: drill-down, roll-up, slice.
3. In SQL format.
4. Using SQL Data Tools
5. Using SQL Data Tools, give a table that allows you to display information of supply quantity by considering all levels of dimension hierarchies.

**Remarks**

* A CD containing the report and the DW.
* A printed copy of your report.