Using Functions, Subqueries, and ROLAP in SQL Queries

Physical Table Design of Sale_Co_DW.db, QC_Checks.db, or Company.db

This physical table structure for the three SQLite databases may be obtained via DBBrowser for SQLite or via .schema dot command in sqlite3.exe.

Sale_Co_DW.db is more of a data warehouse design having fact tables and dimension tables.

QC_Checks.db contains quality check errors from the case study reviewed during Week 05.

Company.db contains company data used to illustrate subqueries in Classwork 6.2.

Exercise:

1) Use any of the three databases above to complete each subsection in step 2. Do not use any of the subqueries illustrated in Classwork 6.1 or Classwork 6.2.

2) Create five unique, executable queries (2 points), using a minimum of four functions on average (2 points), having multiple grouping indexes (2 points), and :
   a. A Type I subquery (2 points) nested with two inner queries (2 points).
   b. A Type II subquery (2 points) nested with two inner queries (2 points).
   c. A Type III correlated subquery (2 points).
   d. The SELECT projection from a table created by a SELECT statement (2 points) with 5 columns.
   e. The SELECT projection from tables saved to a CSV file (2 points).

3) Submit to Canvas Assignment in one PDF document:
   a. Your SQL scripts for each query.
   b. Legible output projection from running each query.