



Fundamentals of Data Management

Credit Tasks 7.2: SQL DML - Queries

Overview

In this tutorial, you will practise using SQL for querying a relational database.

Purpose

Learn to write SQL queries to find information in a relational database.

Task

Solve the tasks given below.

Time

This task should be completed in your seventh lab class and submitted for feedback in the seventh lab or at the beginning of lab 8 or 9. This tutorial is longer than others and tutorial 8 will be shorter, so you can continue with these tasks in lab 8.

Resources

- Online module (from Canvas)
- Elmasri & Navathe, Fundamentals of Database Systems Chapter 4
- Connolly & Begg, Database Systems, Chapter 6
- Churcher, Beginning SQL Queries, Chapters 2 and 3:
 - <http://goo.gl/pzVVDI>
- Online resources, e.g.
http://www.w3schools.com/sql/sql_select.asp

Feedback

Discuss your solutions with the tutorial instructor.

Next

Get started on module 8.

Credit Tasks 7.2 — Submission Details and Assessment Criteria

Document your solutions to the tasks using a word processor. Upload the solutions to Doubtfire as pdf. The tutors will discuss them with you in the lab.

Consider the following schema:

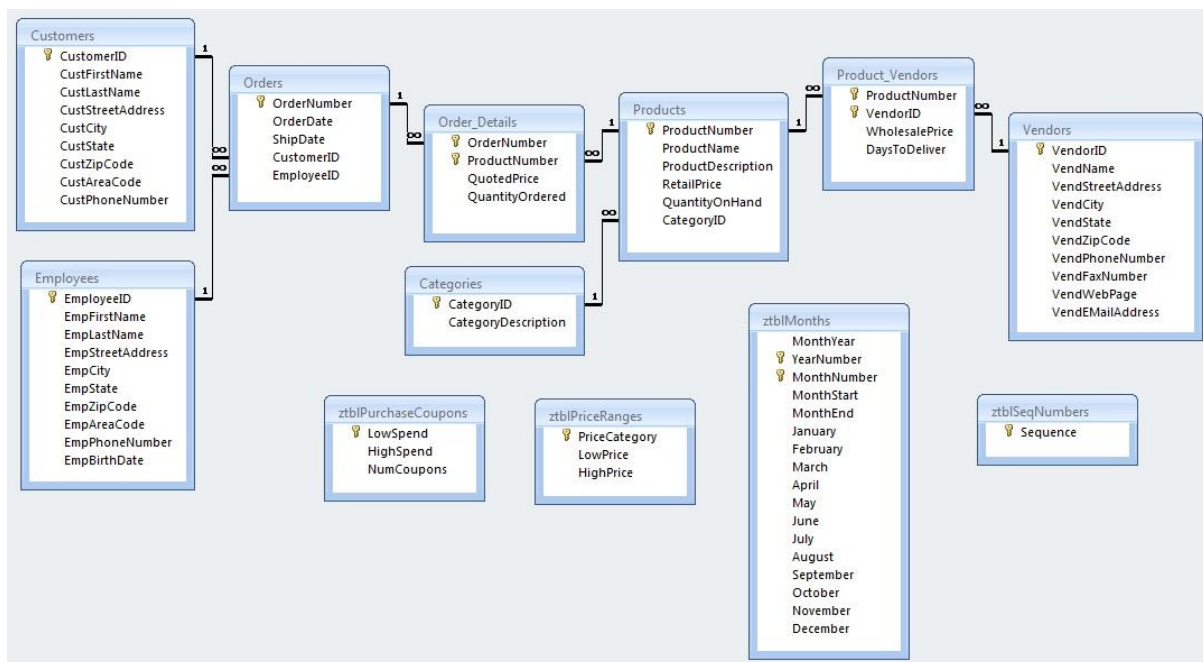


Figure 1: Sales Orders Database

Subtask 7.2.1

Write a query that creates a listing of the value of all the sales of each employee per product to answer the question: What is the value of the **yearly** sales of each employee per product? As before, you have to resort to the QuantityOrdered and QuotedPrice columns to find the sales. Order the result by EmpLastName and ProductName.

| EmpFirstName | EmpLastName | ProductName | TotalSold |
|--------------|-------------|--------------------|-----------|
| Matt | Berg | AeroFlo ATB Wheels | 10179.54 |

If you haven't changed the data, your first row should look like the one shown in the table. Document the result.