Fundamentals of Data Management

Pass Tasks 7.1: 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.

Pass Tasks 7.1 — 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:

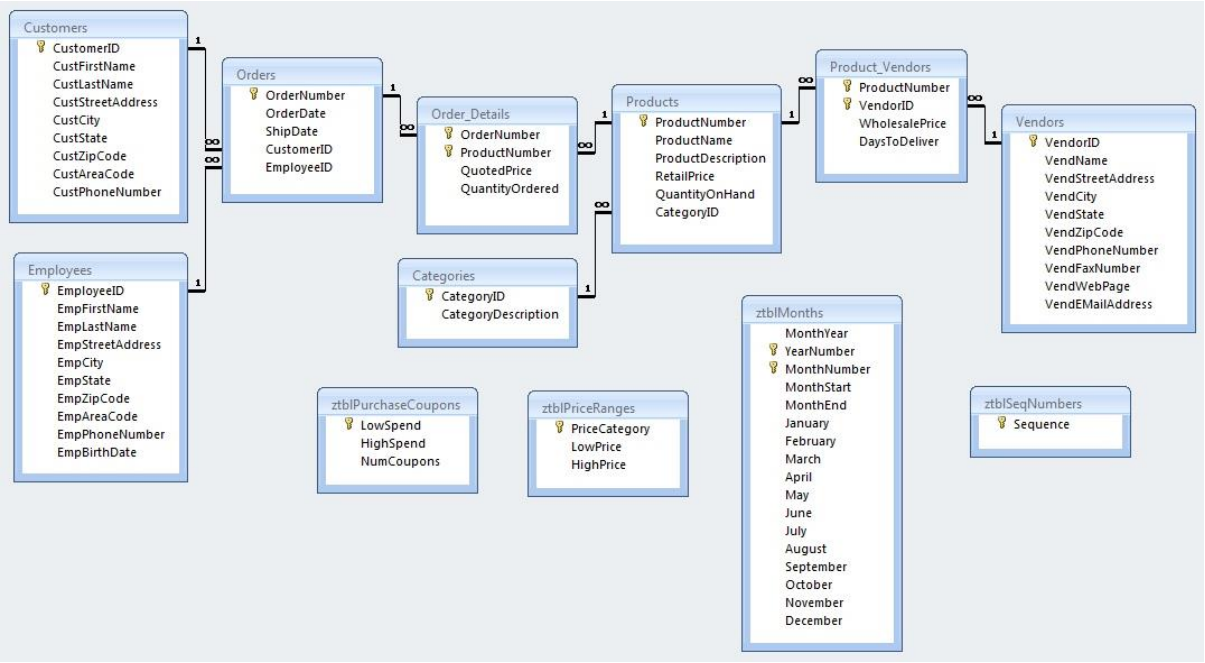

Figure 1: Sales Orders Database

Subtask 7.1.4

Examine this query:

```
SELECT CustFirstName, CustLastName, OrderDate
FROM Customers c, Orders o
WHERE o.CustomerID=c.CustomerID
ORDER BY CustLastName, CustFirstName, OrderDate DESC;
```

a) What do you think its purpose might be? (What do people want to know when they issue such a query?)

b) Rewrite the query using proper JOIN syntax.

c) Modify the query to include the one customer who doesn't have an order.

d) Modify the query to include only the latest orders.

Document and submit the solutions.