

SQL Revision

Exercise Handout

Contents

Overview	2
Objectives.....	2
Setup: Launch SQL Server Management Studio (if necessary).....	2
Step 1.....	2
Step 2.....	2
Step 3.....	2
Step 4.....	2
Step 5.....	2
Step 6.....	3
Step 7	3
Step 8.....	3
Step 9.....	3
Step 10.....	3
Step 11.....	3
Step 12	3
Step 13.....	3
Step 14.....	3
Step 15.....	4
Step 16.....	4
Step 17	4
Step 18.....	4

Overview

In this set of exercises, you will work through tasks to revise what you have learned during the module. All exercises use the Northwind database.

Objectives

At the end of this lab, you will have strengthened your knowledge obtained in the module and will have clarified any uncertain points.

Setup: Launch SQL Server Management Studio (if necessary)

1. Launch the virtual machine.
2. Launch SQL Server Management Studio.
3. Connect to the server.
4. Select the Northwind database.

Step 1

List the OrderID, CustomerID and OrderDate of all Orders that were placed on or before 31 December 1996 sorted in ascending order of OrderDate within CustomerID.

Step 2

List the OrderID, CustomerID and OrderDate of all Orders that were placed between 16/06/1997 and 20/06/1997 sorted in ascending order OrderDate.

Step 3

List all the data for all Products where the the ReorderLevel is greater than 25 sorted in descending order of UnitsInStock.

Step 4

List the CompanyName, ContactName, Country, Region and Phone of Customers whose Region is specified sorted in ascending order of Region within Country.

Step 5

List the distinct Company Names of Customers who place their orders with employees whose last names are either "Davolio" or "Fuller".

Step 6

List the ProductName and UnitPrice of all Products with a CategoryID of 2 or 3 together with a NewUnitPrice (rounded to 2 decimal places) calculated by adding 3% to the UnitPrice, sorted in ascending order of ProductName.

Step 7

Show the total value of all the products currently held in stock with no decimal places.

Step 8

Show the total number of Customers.

Step 9

List the CustomerID, CompanyName and the number of orders for each customer that has more than 20 orders grouping by CustomerID and CompanyName..

Step 10

List the CustomerID, CompanyName and the number of orders for the Customer that has the highest number of orders using appropriate grouping.

Step 11

List the CustomerID and CompanyName for all customers who have had no dealings with employees whose last names are either "Davolio" or "Fuller".

Step 12

Add the following new customer:

ALAVO, Al's Avocados, Alan Tracy, Owner, 34 Porridge Pot Alley, Chelmsford, Essex, CM3 2BZ, UK, 01926 401697, 01926 401698.

Step 13

Update all the unit prices for Products with an increase of 5%.

Step 14

List all the data for Products sorted in ascending order of ProductID.

Step 15

- a) Add the following Region:
5, Europe
- b) Add the following Territories:
09000, UK, 5
09001, France, 5
- c) List all the territories in ascending order of TerritoryID.
- d) List all the regions in ascending order of RegionID.
- e) Imagine that some time has passed and the region with an ID of 5 and all its associated territories needs to be removed from the database. Delete the appropriate records.
- f) List all the territories in ascending order of TerritoryID.
- g) List all the regions in ascending order of RegionID.:

Step 16

Produce a list of Products showing Percentage Raises, ProductID and old and new UnitPrices. Products with a CategoryID of 1, 3 or 5 are given a 5% rise, Products with a CategoryID of 2, 4 or 6 are given a 10% rise and other Products should not be given a rise. Display the results in ascending PercentageRaise sequence and display the new UnitPrices with 2 decimal places.

Step 17

Create a new view for all employees who are managers only using all the fields from the employee table. Include the EmployeeID, LastName, FirstName, Title, TitleOfCourtesy, HomePhone, Extension and ReportsTo columns. Apply a CHECK constraint.

Step 18

Using the view for managers show all the fields for the manager(s) who don't report to anyone sorted in ascending order of EmployeeID.



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