



EPL342 –Databases

Lab 9

SQL-DML 2

(ORDER BY, LIKE, CONTAINS, EXISTS, NULL)

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Before We Begin

- Start the SQL Server Management Studio
 - Start →
 - All Programs →
 - Microsoft SQL Server →
 - SQL Server Management Studio

Server: APOLLO

Authentication: SQL Server Authentication

Username: <your username>

Password: <your password>



Northwind Database Queries

Create the following queries:

1. Print the last and first names of all Employees in alphabetical order (e.g., Cencini | Andrew)
2. Print the last and first names **together** of all Employees in alphabetical order (e.g. 'Cencini Andrew') (HINT: use the concat op **+**)
3. Print the first letter of the last name with a dot (e.g., C.) and the first name of each employee together
4. Print the Products Names of products starting with character C (e.g., Nortwind Traders C...) **(12 rec.)**
5. Print the ID and Address of Customers whose address starts with 3 numbers, a space and then number 1 **(11 rec.)**



Northwind Database Queries

6. Print the names and categories of all products that belong in the categories Beverages or Condiments. Sort the output by category ASC (use **IN**) **(8 rec.)**
7. Print all Order IDs where the Shipper ID is NULL **(5 rec.)**
8. Print all Order IDs and Shipper IDs. If a Shipper ID does not exist replace it with -1. (HINT: use the **ISNULL** function)
9. For each order detail, print the Order ID and next calculate the Total Amount by the formula (Quantity*Unit Price)
10. Print query 9 in descending order



Northwind Database Queries

11. Filter query 10 by displaying all order details that have a Total Amount larger than 2000 (**5 rec.**)
12. From Orders, print all Order IDs and Order Dates for the orders concerning query 11 with the use of **JOIN**
13. Do the same as query 12 but use **IN**
14. Print all Order IDs and the number of days that took in order to ship these orders from their Order Date. The result should be in days. If an order has not been shipped then the difference should be evaluated as the number 111. The results must be printed in descending order according to orders that took the longer to ship.



Northwind Database Queries

15. Print the product ID and name of all products that have been used in orders (NOTE: do not print a product more than once) (use **EXISTS**) **(24 rec.)**
16. Print the ID and first name of both Employees and Customers whose first names sound alike (use **SOUNDEX** function) **(6 rec.)**
17. Print the id, name and list price of the product that has the highest list price in the Beverages category