**Assignment 01**

**Submitted by**

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# **Part 3**

# **1.Database Profiling Table: Northwind Traders**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table | Type | Row Count | PK(s) Used | One Row Is |
| Employees | Master Data | 9 | EmployeeID | An Employee |
| EmployeeTerritories | Business Process | 49 | EmployeeID, TerritoryID | An employee assigned to a territory. |
| Customers | Master Data | 91 | CustomerID | A Customer company’s Details and point of contact |
| Suppliers | Master Data | 29 | SupplierID | Supplier company details with its person of contact |
| Products | Master Data | 77 | ProductID | Products Details with its Supplier’s ID |
| Shipments (of Orders) | Business Process | 830 | OrderID, ShipperID | Order’s shipment details |
| Details (of an Order) | Business process | 2155 | OrderID, ProductID which are composite keys | Product in each Order with each products selling, discounts details. |

## **2. Data Profiling using SQL Query:**

**Qn1:** List the customer contact names and titles sorted by company name.

**Query Screenshot:**

**A screenshot of a computer

Description automatically generated**

**Sample of Output Screenshot:**

**A white screen with yellow and white text

Description automatically generated**

**Screenshot:**

**A screenshot of a computer

Description automatically generated**

**Qn2:** Factoring in discounts, what is total amount of product sold?

**Known Details:** The Order Details has the UnitPrice of each product with its quantity and discount for all orders placed.

**Screenshot of Order Details:**

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Description automatically generated

To find the Total Amount of product sold, we use the following formula:

**Total\_Amt\_Product\_sold = (UnitPrice-Discount) \*Quantity**

**Screenshot of Query:**

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Description automatically generated**

**Screenshot of Result:**

**A white screen with a yellow border

Description automatically generated**

**Screenshot Whole:**

**A screenshot of a computer

Description automatically generated**

**Qn 3:** Provide a list of product category names with counts of products in each category.

**Query Screenshot:**

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Description automatically generated**

**Output Screenshot:**

**A white rectangular object with yellow edges

Description automatically generated**

**Full Screenshot:**

**A screenshot of a computer

Description automatically generated**

**Qn4:** Select a specific customer, and display that customer’s orders with total amount of product sold for each order.

**Query Screenshot:**

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Description automatically generated**

**Output Screenshot:**

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Description automatically generated**

**Full Screenshot:**

**A screenshot of a computer

Description automatically generated**

**Qn5:** Select a specific employee and each order, how it was shipped (shipvia), the company who shipped it, and the total number of days elapsed from order date to shipped date.

**Query Screenshot:**

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**Output Screenshot:**

**A screenshot of a computer

Description automatically generated**

**Full Screenshot:**

**A screenshot of a computer

Description automatically generated**

Note: I have attached Query Screenshot, Output Screenshot and Whole Screenshot for better view.