```
# Create Database: northwind_internship
CREATE DATABASE northwind_internship;
# Use Database: northwind_internship
USE northwind_internship;
-----
                             _____
# Create Table: categories
CREATE TABLE categories (
   CategoryID INT PRIMARY KEY,
   CategoryName VARCHAR(255),
   Description TEXT
);
  ______
# Select Top 5 Records from categories
SELECT * FROM categories LIMIT 5;
# Create Table: customers
CREATE TABLE customers (
   CustomerID VARCHAR(10) PRIMARY KEY,
   CompanyName VARCHAR(255),
   ContactName VARCHAR(255),
   ContactTitle VARCHAR(255),
   City VARCHAR(100),
   Country VARCHAR(100)
);
______
# Select Top 5 Records from customers
SELECT * FROM customers LIMIT 5;
______
# Create Table: orders
CREATE TABLE orders (
   OrderID INT PRIMARY KEY,
   CustomerID VARCHAR(10),
   EmployeeID INT,
   OrderDate DATE,
   RequiredDate DATE,
   ShippedDate DATE,
   ShipperID INT,
   Freight DECIMAL(10, 2),
   FOREIGN KEY (CustomerID) REFERENCES customers(CustomerID)
);
# Select Top 5 Records from orders
SELECT * FROM orders LIMIT 5;
# Create Table: employees (initial attempt)
CREATE TABLE employees (
   employeeID INT PRIMARY KEY,
   employeeName VARCHAR(255),
   title VARCHAR(255),
   city VARCHAR(100),
   country VARCHAR(100),
   reportsTo INT
);
# Create Table: employees (final with NULL support)
CREATE TABLE employees (
   employeeID INT PRIMARY KEY,
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employeeName VARCHAR(255),
   title VARCHAR(255),
   city VARCHAR(100),
   country VARCHAR(100),
   reportsTo INT NULL
);
# Select Top 5 Records from employees
SELECT * FROM employees LIMIT 5;
_____
# Create Table: products
CREATE TABLE products (
   productID INT PRIMARY KEY,
   productName VARCHAR(255),
   quantityPerUnit VARCHAR(100),
   unitPrice DECIMAL(10, 2),
   discontinued BOOLEAN,
   categoryID INT,
   FOREIGN KEY (categoryID) REFERENCES categories(categoryID)
);
# Select Top 5 Records from products
SELECT * FROM products LIMIT 5;
______
# Create Table: shippers
CREATE TABLE shippers (
   shipperID INT PRIMARY KEY,
   companyName VARCHAR(255)
);
# Select Top 5 Records from shippers
SELECT * FROM shippers LIMIT 5;
______
# Create Table: orderDetails
CREATE TABLE orderDetails (
   orderID INT,
   productID INT,
   unitPrice DECIMAL(10, 2),
   quantity INT,
   discount DECIMAL(4, 2),
   PRIMARY KEY (orderID, productID),
   FOREIGN KEY (orderID) REFERENCES orders(orderID),
   FOREIGN KEY (productID) REFERENCES products(productID)
);
# Select Top 5 Records from orderDetails
SELECT * FROM orderDetails LIMIT 5;
______
# Filter Customers from Germany
SELECT *
FROM customers
WHERE country = 'Germany';
______
# List Employees with Their Managers
SELECT
   e.employeeID,
   e.employeeName AS Employee,
   m.employeeName AS Manager
FROM employees e
LEFT JOIN employees m ON e.reportsTo = m.employeeID;
```

```
# Count of Customers Grouped by Country
SELECT
   country,
   COUNT(customerID) AS total_customers
FROM customers
GROUP BY country
ORDER BY total_customers DESC;
_____
# Top 5 Most Expensive Products
SELECT
   productName,
   unitPrice,
   quantityPerUnit
FROM products
ORDER BY unitPrice DESC
LIMIT 5;
# Customer Count per Country (Repeated Query)
   country,
   COUNT(*) AS customer_count
FROM customers
GROUP BY country
ORDER BY customer_count DESC;
_____
# Discontinued Products with Their Categories
SELECT
   p.productName,
   c.categoryName,
   p.unitPrice
FROM products p
JOIN categories c ON p.categoryID = c.categoryID
WHERE p.discontinued = 1;
_____
# Top 5 Customers by Number of Orders
SELECT
   c.customerID,
   c.companyName,
   COUNT(o.orderID) AS totalOrders
FROM customers c
JOIN orders o ON c.customerID = o.customerID
GROUP BY c.customerID, c.companyName
ORDER BY totalOrders DESC
LIMIT 5;
_____
# Average Unit Price per Category
SELECT
   c.categoryID,
   c.categoryName,
   ROUND(AVG(p.unitPrice), 2) AS avgUnitPrice
FROM categories c
JOIN products p ON c.categoryID = p.categoryID
GROUP BY c.categoryID, c.categoryName;
# Order Count by Country
SELECT
   cu.country,
   COUNT(o.orderID) AS totalOrders
```

FROM customers cu

```
JOIN orders o ON cu.customerID = o.customerID
GROUP BY cu.country
ORDER BY totalOrders DESC;
______
# Top 3 Most Ordered Products
SELECT
   p.productName,
   SUM(od.quantity) AS totalOrdered
FROM orderdetails od
JOIN products p ON od.productID = p.productID
GROUP BY p.productName
ORDER BY totalOrdered DESC
LIMIT 3;
______
# Top 3 Shippers by Freight and Orders
SELECT
   s.companyName AS Shipper,
   COUNT(o.orderID) AS TotalOrders,
   SUM(o.freight) AS TotalFreight
FROM
   orders o
JOIN
   shippers s ON o.shipperID = s.shipperID
GROUP BY
   s.companyName
ORDER BY
   TotalFreight DESC
LIMIT 3;
# Employees and Who They Report To
   e.employeeName AS Employee,
   m.employeeName AS ReportsTo
FROM
   employees e
JOIN
```

employees m ON e.reportsTo = m.employeeID;