Mastek
Trust. Value. Velocity

ORACLE SQL

Assignment

Private & Confidential
FEBRUARY 12, 2024

Contents

Assignments on Northwind 3

Oracle Union All 3

- List all customers from the USA and Canada. 3
- List all employees from the USA and UK. 3
- List all products from the 'Beverages' category and 'Confections' category. 3
- List all orders shipped by 'Speedy Express' and 'United Package' 3
- List all customers and suppliers company name. 3

Oracle Intersect: 3

Assignment: Write queries to find common rows returned by two SELECT statements. 3

- List all customers from the USA and Canada. 3
- List all employees from the USA and UK. 3
- List all products from the 'Beverages' category and 'Confections' category. 3
- List all orders shipped by 'Speedy Express' and 'United Package' 3
- List all customers and suppliers company name. 3

Oracle Minus: 3

Assignment: Write queries to find rows in one SELECT statement but not in another. 3

Anti Join: 3

Assignment: Write queries to return only rows where there is no match on the joined tables. 3

- List customers who have not placed any orders. 3
- List employees who have not made any sales. 3
- List categories with no products. 3
- List products with no orders. 3
- List suppliers with no products. 3

Semi Join: 3

Assignment: Write queries to return only rows from the first table where there is a match with the 3

- List customers who have placed orders. 3
- List employees who have made sales. 3
- List categories with products. 3
- List products with orders 3
- List suppliers with products. 3

With Clause: 3

Assignment: Write queries using the WITH clause to define a common table expression for reuse in subsequent SELECT statements. 3

- List all employees along with their managers. 3
- Calculate the total number of orders placed by each customer. 3

© Copyright Mastek, 2023. All Rights Reserved

- Calculate the total sales amount for each product. 3
- Find the top 10 customers based on their total order amount. 3
- Find the top 5 products based on their total sales amount. 3

Grouping Set 3

Assignment: Write queries using the GROUPING SETS clause to perform multiple GROUP BY operations in a single query. 4

- Calculate the total number of orders for each customer, year, and month. 3
- Calculate the total sales amount for each product category and year. 3
- Calculate the total sales amount for each shipper and country. 3
- Calculate the total number of orders for each employee and territory. 4
- Calculate the total sales amount for each customer and product category. 4

© Copyright Mastek, 2023. All Rights Reserved

Assignments on Northwind

Oracle Union All Assignment: Write queries to combine the results of two or more SELECT statements, including duplicate rows.	• List all customers from the USA and Canada. • List all employees from the USA and UK. • List all products from the 'Beverages' category and 'Confections' category. • List all orders shipped by 'Speedy Express' and 'United Package'. • List all customers and suppliers company name.
Oracle Intersect: Assignment: Write queries to find common rows returned by two SELECT statements.	• List all customers from the USA and Canada. • List all employees from the USA and UK. • List all products from the 'Beverages' category and 'Confections' category. • List all orders shipped by 'Speedy Express' and 'United Package'. • List all customers and suppliers company name.
Oracle Minus: Assignment: Write queries to find rows in one SELECT statement but not in another.	• List customers not from the USA. • List employees not from the UK. • List products not in the 'Beverages' category. • List orders not shipped by 'Speedy Express'. • List customers who are not also suppliers.
Anti Join: Assignment: Write queries to return only rows where there is no match on the joined tables.	• List customers who have not placed any orders. • List employees who have not made any sales. • List categories with no products. • List products with no orders. • List suppliers with no products.
Semi Join: Assignment: Write queries to return only rows from the first table where there is a match with the	• List customers who have placed orders. • List employees who have made sales. • List categories with products. • List products with orders. • List suppliers with products.
With Clause: Assignment: Write queries using the WITH clause to define a common table expression for reuse in subsequent SELECT statements.	• List all employees along with their managers. • Calculate the total number of orders placed by each customer. • Calculate the total sales amount for each product. • Find the top 10 customers based on their total order amount. • Find the top 5 products based on their total sales amount.
Grouping Set	• Calculate the total number of orders for each customer, year, and month. • Calculate the total sales amount for each product category and year. • Calculate the total sales amount for each shipper and country.

© Copyright Mastek, 2023. All Rights Reserved

Assignment: Write queries using the GROUPING SETS clause to perform multiple GROUP BY operations in a single query.	• Calculate the total number of orders for each employee and territory. • Calculate the total sales amount for each customer and product category.

© Copyright Mastek, 2023. All Rights Reserved