

## Oracle 11g SQL Exercises

### Select Query

- Display all product ids, names and prices, sort by name.
- Display each employee's full name, Phone, and the number of years he / she has worked at the company.
- For employees who started working after 2005, display their names, addresses and salary. Sort by addresses.
- Display the names of those products which the difference between list price and minimum price is greater than 100, sorted by name.

### Join Tables

- Display customer id, name and order id for: orders placed in 2007, and customers whose credit limit is between 200 and 700, sort by name and order id.
- Display product name, price and its category name, sort by category name.
- Display customers' names and the products they ordered in 2008, only for products that cost more than \$10 per unit.
- Display order id, product name and calculate product unit price \* quantity for each ordered product in 2007.
- Display employee name and the name of his / her manager.

### Aggregation Functions

- What is the average seniority of company's employees?
- How many customers live in each city, display only cities in which there are more than one customer.
- How many products does each supplier supply?
- How many items were ordered of each product?
- For each year, display the dates of the first and last orders, the number of orders made and the total cost of orders.
- For each day of the week, show the number of orders made and the total cost of orders.
- Which employees' sales exceeded \$20,000 in 2007?
- 1000\$ = 1 Oracle Point, How many points each customer own?

#### Sub Queries

- What is the name of the most expensive product?
- What is the name of the most expensive product that has ever been ordered?
- Which products cost more than the average product price?
- Which products were demanded in orders for which the sales representative was the oldest employee?
- Which products were ordered among the orders in which the most expensive product had been ordered?

#### Analytic Functions

- For each category display the top 3 expensive product.
- For each year display the total orders cost and the difference from last year sort by the year. (Difference = subtract the current year total cost from the last year total cost).
- For each month display the total orders cost and the running sum from the beginning of the year. Order the results by the year and month.

#### Views

Create views for the following queries:

- How many items were sold by the best sales representative (in terms of selling the largest quantity of items) of the year, in every year?
- Who was that best sales representative of the year, in every year?
- Which product has been ordered the most?
- Which product has made the largest income?

#### Excel Reports

- Choose one of the selects that you wrote and Export the result to excel using SQL Developer.
- Create a report in excel:
  - Create ODBC Connection to Oracle OE schema.
  - Use the query from Aggregation Function section: "For each day of the week, show the number of orders made and the total cost of orders."
  - Configure the report to update every 30 minutes.