Assignment_6

Use classicmodels database

1. How many products in each product line?
Query - select productLine , productName , count(*) from products group by productLine;

2. What is the minimum payment received?
Query - select amount from payments where amount = (select min(amount) from payments);

3. List all payments greater than twice the average payment.
Query - select amount , customerNumber , customerName from payments join customers using (customerNumber) where amount > (select avg(amount)*2 from payments);

4. What is the average percentage markup of the MSRP on buyPrice?
Query - SELECT CAST(AVG((MSRP-buyPrice)/buyPrice)*100 AS DECIMAL (5,2)) AS Average
FROM Products;

5. How many distinct products does ClassicModels sell?
Query - select distinct count(*) from products;

6. Report the name and city of customers who don't have sales representatives?
Query - select customerName , city , salesRepEmployeeNumber from customers where salesRepEmployeeNumber is null;

7. What are the names of executives with VP or Manager in their title? Use the CONCAT function to combine the employee's first name and last name into a single field for reporting.

Query - select concat(firstname,' ',lastname) as Name , jobtitle from employees where jobtitle like "%VP%" or jobtitle like "%Manager%";

8. Which orders have a value greater than $5,000?

Query - select customernumber,customername,amount from payments join customers using (customernumber) where amount > '5000';

9. List the value of 'On Hold' orders.

Query - select orderNumber , status from orders where status = 'On Hold';

10. Report the number of orders 'On Hold' for each customer.

Query - select orderNumber , count(*) , status from orders where status = 'On Hold' group by ordernumber;

11. List products sold by order date.

Query - select * from orders order by orderdate;

12. List the order dates in descending order for orders of the 1940 Ford Pickup Truck.

Query -

13. List the names of customers and their corresponding order number where a particular order from that customer has a value greater than $25,000?

Query - select customernumber ,customername , ordernumber , amount from customers join orders using (customernumber) join payments using (customernumber) where amount > '25000';

14. Are there any products that appear on all orders?
Query -

15. List the names of products sold at less than 80% of the MSRP

Query - select productname from products where MSRP < '80';

16.Compute the commission for each sales representative, assuming the commission is 5% of the value of an order. Sort by employee last name and first name.

Query - SELECT employeeNumber, E.firstName, E.lastName, CAST(.05 * SUM(priceEach * quantityOrdered) AS DECIMAL(8, 2)) AS Commission
FROM Employees E, Customers C, Orders O, OrderDetails OD
WHERE E.employeeNumber = C.salesRepEmployeeNumber
AND C.customerNumber = O.customerNumber
AND O.orderNumber = OD.orderNumber
GROUP BY employeeNumber, lastName, firstName
ORDER BY lastName, firstName ASC

17. What is the difference in days between the most recent and oldest order date in the Orders file?

Query - select * , count(*) from orders where datediff('2003-01-10' , '2005-05-31');

18. Compute the ratio of payments for each customer for 2003 versus 2004.
Query - select * from payments order by date_format(paymentdate , "%y");

19. Find the products sold in 2003 but not 2004.
Query -

20. Find the customers without payments in 2003.
Query - select amount , count(*) from payments where amount is null ;