WORKSHEET 3 SQL

Refer the following ERD and answer all the questions in this worksheet. You have to write the queries using.

1. Write SQL query to create table Customers.

ANS. Make TABLE Customer (

Customer Number int,

Customer Name varchar (50),

Contact Last Name varchar (50),

Conatact First Name varchar (50),

Telephone varchar (50),

AddressLine1 varchar (50),

AddressLine2 varchar (50),

City varchar (50),

State varchar (50),

Postal Code int,

Country varchar (50),

Sales Rep Employee Number varchar (50),

Credit Limit bigint

2. Write SQL query to create table Orders.

1. ANS. CREATE TABLE Orders (
2. Order Number int,
3. Order Date datetime,
4. Required Date datetime,
5. Shipped Date datetime,
6. Status varchar (50),
7. Comments varchar (50),
8. Customer Number varchar (10)

3. Write SQL query to show all the columns data from the Orders Table.

ANS. Select * from Orders

4. Write SQL query to show all the comments from the Orders Table.

ANS. Select Comments from Orders

5. Write a SQL query to show order Date and Total number of orders placed on that date, from Orders table.

ANS. SELECT cast (order Date as date), COUNT (order Number)

from Orders

group by cast (order Date as date)

6. Write a SQL query to show employees Number, last Name, first Name of all the employees from employees table .

ANS. select employees Number, last Name, first Name from employees

7. Write a SQL query to show all order Number, customer Name of the person who placed the respective order.

ANS. select o. Order Number, c. Customer Name

from Orders o (nolock)

inner join Customers c (nolock)

on c. Customer Number=o. Customer Number

8. Write a SQL query to show name of all the customers in one column and salerepemployee name inanother column.

ANS. select (e. First Name + ' ' + e. Last Name) as Sales Rep Name, c. Customer Name

from Employees e (nolock)

inner join Customers c (nolock)

on c. Sales Rep Employee Number=e. Employee Number

9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the payments table.

ANS. SELECT cast (payment Date as date), sum(amount)

from Payments

group by cast (payment Date as date)

10. Write a SQL query to show all the products product Name, MSRP, product Description from the products table.

ANS. select productName, MSRP, productDescription from products

11. Write a SQL query to print the product Name, product Description of the most ordered product.

ANS. select top 1 op. product Name, op. product Description from

select p. product Name, p. product Description, count (p. product Name) as Max Orders

from Products p (nolock)

inner join Order Details o (nolock)

on o. Product Code=p. Product Code

group by p. product Name, p. product Description

op

order by op .Max Orders – des c

12. Write a SQL query to print the city name where maximum number of orders were placed.

ANS. select top 1 tt. City from

select c. City, count(*) as city Count

from Orders o (nolock)

inner join Customers c (nolock)

on c. Customer Number=o. Customer Number

group by c. City

) tt

order by tt . city Count des c

13. Write a SQL query to get the name of the state having maximum number of customers.

ANS. elect top 1 l. state from

select state, Count(state) as State Count

from Customers

group by state

order by l. State Count des c

14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

ANS. select Employee Number, (first Name + ' ' + last Name) as Employee Name from Employees

15. Write a SQL query to print the order Number, customer Name and total amount paid by the customer for that order (quantity Ordered × price Each).

ANS. select o. Order Number, c. Cutomer name, (od. Quantity Ordered * p. Buy Price) as Total Amount Paid from

Order Details od (nolock)

inner join Orders o (nolock)

on o. Order Number=od. Order Number

inner join Customers c (nolock)

on c. Customer Number=o. Customer Number

Inner join Products p (nolock)

on od. Product Code=p. Product Code