**SQL SERVER SELF ASSESSMENT QUESTIONNARIE**

1. Write a query to display the top three salespersons and bonus and in addition write a query to display the id of the salesperson having second highest bonus.

Hint: Use Sales.SalesPerson

1. Write a query to display the details of those stores, which doesn’t have Bike in their name.

Hint - Schema name – Sales, Table name- Store

1. Write a query to display the sales order ID and the maximum and minimum values of the order based on the sales order ID. In addition, ensure that the order amount is greater than $5,000.
2. Write a query to display the total unit price and the total amount collected after selling the products, 774 and 777. In addition, calculate the total amount collected from these two products.

Hint - Use Sales.SalesOrderDetail

1. Write a query to display the no of orders received for each product with the product name and product number. And display the name of the product having number of orders greater than 3.

Hint - Schema name – Production, Purchasing Table name- PurchaseOrderDetail, Product

1. Write a query to display the EmployeeID, FirstName and LastName as Employee Name, Designation and the HireDate of the employees. The month and the year need to be displayed as separate columns and the hire date should be displayed in this format 10 Jan 2000.

Hint - Schema name –HumanResources, Person Table name- Employee, Contact

1. Create a table as EmployeeData with following details.
   1. EmployeeID auto increament from 1001 onwards.
   2. EmployeeName string type max 70.
   3. City string type max 30 default Bangalore.
   4. WorkingCity string type max 20 and should be only in these values Bangalore, Chennai, Mumbai, Calcutta.
   5. Phone string should be ###-######## in the specific format.
   6. Age numeric and should be in between 20 and 60.
2. Alter the above table and implement the following features.
   1. Add a new column as Email string type.
   2. Remove the default from City column.
   3. Remove the constraint from the WorkingCity column.
3. Write a CTE to display the vendor details and product details, where vendors those who have supplied more than 2 products.

Hint- Schema Name – Purchasing, Production Table Name – ProductVendor, Product

1. Write a query to take the backup of the Purchasing.Vendor table to Sales.Vender\_Test. Then update the vendor name to National Bikes where the vendor id =1, 4, 10.

Then reflect the same changes to the Sales.Vender\_Test table.

Hint- Use Merge

1. Write a query to display a list of dates that orders were made along with the number of products ordered and the total amount of those products for each date.

Hint- Schema name – Purchasing Table Name – PurchaseOrderHeader, PurchaseOrderDetail

Hint- Use nested CTE.

1. Write a query to create table type named as EmployeeTest with the columns as EmployeeID, ContactID, ManagerID, Title. Delete the HumanResources.Employee table data where the title=marketing assistant. And fill those deleted records to the table EmployeeTest. Display those deleted records.

Hint- Use output

1. Replace the following query with joins.

SELECT DISTINCT c.LastName, c.FirstName

FROM Person.Contact c where c.ContactID in(select c.ContactID from HumanResources.Employee e

WHERE EmployeeID IN

(SELECT SalesPersonID

FROM Sales.SalesOrderHeader

WHERE SalesOrderID IN

(SELECT SalesOrderID

FROM Sales.SalesOrderDetail

WHERE ProductID IN

(SELECT ProductID

FROM Production.Product p

WHERE ProductNumber = 'BK-M68B-42'))));

1. Write a query to display each employee's first and last name for which the bonus in the SalesPerson table is 5000 and for which the employee identification numbers match in the Employee and SalesPerson tables.

Hint- Schema Name- HumanResources, Sales Table Name- Employee, SalesPerson

Hint – Use Correlated Sub Query

1. Create a view to display the product details along with their sales details such as – ProductID, name,product number, color, unit price, sales order id, ordered date, ordered qty. Delete the product detail from the view where the product id=776 and Salesorderid=43659. During the delete operation if any error comes then write the solution for the same.

Hint- Schema name- Production Table name- Product, SalesOrderHeader, SalesOrderDetail.

1. Write a query to delete the customer details where the CustomerType=’S’. And display those deleted records.

Hint- Schema name – Sales Table Name- Customer

Hint – Use OUTPUT

1. Create a function to display the EmployeeID, ContactID, FirstName, LastName, ManagerName, HireDate based on the EmployeeID as the input to the function.

Hint- Schema Name – HumanResources Table Name – Employee, Contact

1. Create a stored procedure to display the vendor details (VendorID, AccountNumber, Name) based on the ProductID as an input to the procedure.

Hint- Schema Name – Purchasing Table Name – Product, Vendor

1. Suppose you want to update the product cost in the ProductCostHistory to 15.4588 where ProductID is 707. And during this transaction if any error comes then rollback the update statement. In addition ensure that during the update process no other users should be able to update data on the same table. How you implement the Transaction Isolation Level to achieve the above requirement.
2. Create a trigger on the HumanResources.Employee table for update the employee details. Then update one employee record so that the trigger should display the old record and the new updated record as the output along with the updated data.