**HWSQL02 – AdventureWorks Database**

--1 Find the employees hired in the last 365 days of the data set.  Determine the last 365 days with a query. List first and last name along with department.

select APP.FirstName, APP.LastName, AHE.HireDate, dept.Name

from [AdventureWorks2019].[HumanResources].[Employee] as AHE, [AdventureWorks2019].[Person].[Person] as APP,

(select max(HireDate) as highest from [AdventureWorks2019].[HumanResources].[Employee] as AHE) as t,

[AdventureWorks2019].[HumanResources].[Department] as dept, [AdventureWorks2019].[HumanResources].[EmployeeDepartmentHistory] as empdept

where DATEDIFF(DAY,AHE.HireDate, t.highest) <=365 and AHE.BusinessEntityID =APP.BusinessEntityID and APP.BusinessEntityID = empdept.BusinessEntityID

and empdept.DepartmentID = dept.DepartmentID

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--2 Show all the employees and add an indicator to the above query showing if they received a raise in the last 365 days.

select FirstName, Lastname, dept.Name,

Case when emppay.ratechangedate >= (Select DATEADD(DAY,-365, max(HireDate)) from [AdventureWorks2019].[HumanResources].[Employee])

then 'Raise' else 'No Raise'

end as Hike

from Person.Person as person, HumanResources.Employee as emp, HumanResources.Department as dept,

HumanResources.EmployeeDepartmentHistory as depthist, HumanResources.EmployeePayHistory as emppay

where person.BusinessEntityID = emp.BusinessEntityID and dept.DepartmentID = depthist.DepartmentID and

depthist.BusinessEntityID = emp.BusinessEntityID

and emppay.BusinessEntityID = emp.BusinessEntityID

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--3 Create a summary sales report by customer show name along with number of orders and the total of the orders.

select person.FirstName, person.LastName, count(salesheader.SalesOrderID) as No\_Of\_Orders, sum(salesheader.TotalDue) as Total\_Of\_Orders

from [AdventureWorks2019].[Person].[Person] as person,[AdventureWorks2019].[Sales].[SalesOrderHeader] as salesheader, [AdventureWorks2019].[Sales].[Customer] as cust

where person.BusinessEntityID = cust.PersonID and salesheader.CustomerID = cust.CustomerID

group by person.FirstName, person.LastName

order by No\_Of\_Orders,Total\_Of\_Orders

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--4 Show the credit card info for sales - mask the credit card number data so only the last two digits of the card are visible. For example 123456 would be \*\*\*\*56

SELECT \* FROM Sales.CreditCard;

CREATE USER CreditCardMask WITHOUT LOGIN;

GRANT SELECT ON Sales.CreditCard TO CreditCardMask;

DROP INDEX AK\_CreditCard\_CardNumber ON Sales.CreditCard;

ALTER TABLE Sales.CreditCard

ALTER COLUMN CardNumber VARCHAR(20) MASKED WITH (FUNCTION = 'partial(0,"\*\*\*\*",2)');

EXECUTE AS USER = 'CreditCardMask'

SELECT \* FROM Sales.CreditCard

REVERT

GO

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