

From a Relational Databases that's uses Microsoft SQL Server I CREATED A VIEW FROM THE AdventureWorks sales Department to list Details of the salesperson being the following: FirstName ,MiddleName,LastName .

The sales Person who received bonuses over 5000.00 and who had processed orders with DueDate between 2014 and 2016.

This information was essential for the department to have a clearer knowledge of the exact sales person with desired details .

The query is as follows

```
USE AdventureWorks2017
```

```
GO
```

```
CREATE VIEW vWSalesDepartment1_1_1
```

```
AS
```

```
SELECT Title, FirstName, MiddleName, LastName
```

```
FROM Person.Person P
```

```
JOIN Sales.Customer C ON C.PersonID = P.BusinessEntityID
```

```
JOIN Sales.SalesOrderHeader SOH ON SOH.CustomerID = C.CustomerID
```

```
JOIN Sales.SalesOrderDetail SOD ON SOD.SalesOrderID = SOH.SalesOrderID
```

```
WHERE YEAR(OrderDate)>2008 AND UnitPrice>100.00
```

```
SELECT * FROM vWSalesDepartment1_1_1
```

SQLQuery6.sql - L447.AdventureWorks2017 (SCMSDOM\201401140 (56))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

AdventureWorks2017 Execute

Object Explorer

Connect

L447 (SQL Server 15.0.2070.41 - SCMSDOM\201401140)

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  - Security
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  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery4.sql - L4...OM\201401140 (52) SQLQuery6.sql - L4...OM\201401140 (56)\* SQLQuery7.sql - L4...OM

```
USE AdventureWorks2017
GO

CREATE VIEW vwSalesDepartment1_1_1
AS
SELECT Title, FirstName, MiddleName, LastName
FROM Person.Person P
JOIN Sales.Customer C ON C.PersonID = P.BusinessEntityID
JOIN Sales.SalesOrderHeader SOH ON SOH.CustomerID = C.CustomerID
JOIN Sales.SalesOrderDetail SOD ON SOD.SalesOrderID = SOH.SalesOrderID

WHERE YEAR(OrderDate)>2008 AND UnitPrice>100.00

SELECT * FROM vwSalesDepartment1_1_1
```

100 %

Results Messages

	Title	FirstName	MiddleName	LastName
1	NULL	James	NULL	Hendergart
2	NULL	James	NULL	Hendergart
3	NULL	James	NULL	Hendergart
4	NULL	James	NULL	Hendergart
5	NULL	James	NULL	Hendergart
6	NULL	James	NULL	Hendergart
7	NULL	James	NULL	Hendergart
8	Mr.	Takiko	J.	Collins
9	Mr.	Takiko	J.	Collins
10	Ms.	Jauna	E.	Elson
11	Ms.	Jauna	E.	Elson
12	Ms.	Jauna	E.	Elson
13	Ms.	Jauna	E.	Elson
14	Ms.	Jauna	E.	Elson
15	Ms.	Jauna	E.	Elson
16	Ms.	Jauna	E.	Elson
17	Ms.	Jauna	E.	Elson
18	Ms.	Jauna	E.	Elson
19	Ms.	Jauna	E.	Elson

Query executed successfully.

## 2.SECOND PROJECT :

The software developers Small enterprice company wanted to execute a **stored procedure** to display certain information on the company's website .

As a DATABASE Developer I developed a Stored procedure for the software developer that listed Storename, demographics ,City ,Orderdate ,DueDate ,Shiprate specifically from the city called "LAVENDER BAY"

And a stored procedure took two arguments where CustomerId IS EQUAL TO First ARGUMENT VALUE and Order Year is greater than a year passed an argument.

THE SQL QUERIES ARE AS FOLLOWS :

```
Use AdventureWorks2017
go
CREATE PROC SP_Companyweb1_1_2
@PersonTitle varchar(20),
@orderDate date
AS
BEGIN
SELECT Title, FirstName, MiddleName, LastName
FROM Person.Person P
      JOIN Sales.SalesPerson SP ON SP.BusinessEntityID = P.BusinessEntityID
      JOIN Sales.SalesOrderHeader SOH ON SOH.SalesPersonID =
SP.BusinessEntityID
      JOIN Person.Address A ON A.AddressID = SOH.BillToAddressID

WHERE SP.Bonus > 4000.00
AND A.City = 'seattle'
AND P.Title = @PersonTitle
AND SOH.OrderDate = @orderDate

end
EXECUTE SP_Companyweb1_1_2 'Mr', '2010-01-01'
```

SQLQuery7.sql - L447.AdventureWorks2017 (SCMSDOM\201401140 (59)) - Microsoft SQL Server Management Studio

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AdventureWorks2017 Execute

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SQLQuery4.sql - L4...OM\201401140 (52) SQLQuery6.sql - L4...OM\201401140 (56)\* SQLQuery7.sql - L4...C

```
Use AdventureWorks2017
go
CREATE PROC SP_Companyweb1_1_2
@PersonTitle varchar(20),
@orderDate date
AS
BEGIN
SELECT Title, FirstName, MiddleName, LastName
FROM Person.Person P
JOIN Sales.SalesPerson SP ON SP.BusinessEntityID = P.BusinessEntityID
JOIN Sales.SalesOrderHeader SOH ON SOH.SalesPersonID = SP.BusinessEntityID
JOIN Person.Address A ON A.AddressID = SOH.BillToAddressID

WHERE SP.Bonus > 4000.00
AND A.City = 'seattle'
AND P.Title = @PersonTitle
AND SOH.OrderDate = @orderDate

end
EXECUTE SP_Companyweb1_1_2 'Mr', '2010-01-01'
```

100 %

Results Messages

Title	FirstName	MiddleName	LastName
-------	-----------	------------	----------

Query executed successfully.

3.I Created a Function to calculate the number of orders made the store named ecommerce Bikes where orders were placed between Year 2011 and 2014.

A Function takes two parameters to further filter the data using Shiprate greater or equals to the value shipped as an argument.

ShipRate equals to the second value passed as an argument .

Lets look at the queries:

```
Use AdventureWorks2017
go
CREATE FUNCTION Fn_NumberofOrders(@ShipRate decimal(2,1))
RETURNS TABLE
AS
RETURN
(
    SELECT * FROM Sales.Store S
    JOIN Sales.Customer C ON C.StoreID = S.BusinessEntityID
    JOIN Sales.SalesOrderHeader SOH ON SOH.CustomerID = C.CustomerID
    JOIN Purchasing.ShipMethod SH ON SH.ShipMethodID = SOH.ShipMethodID

    WHERE S.Name = 'Next-Door Bike Store'
    AND OrderDate BETWEEN '2011-06-12' AND '2014-07-12'
    AND ShipRate >= @ShipRate
);

SELECT * FROM Fn_NumberofOrders(1.0)
```

100 %

Results Messages

	BusinessEntityID	Name	SalesPersonID	Demographics	rowguid	ModifiedDate	CustomerID	PersonID	StoreID	TerritoryID	AccountNumber	rowguid
1	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
2	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
3	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
4	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
5	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
6	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F
7	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com...	A22517E3-848D-4EBE-89D9-7437F3432304	2014-09-12 11:15:07.497	29484	291	292	5	AW00029484	A24C1240-1A8D-427B-91E9-6197F

<

Query executed successfully.

L447 (15.0 RTM) SCMSDOM\201401140 (52) AdventureWorks2017 00:0

SQLQuery4.sql - L447.AdventureWorks2017 (SCMSDOM\201401140 (52)) - Microsoft SQL Server Management Studio

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```
Use AdventureWorks2017
go
CREATE FUNCTION Fn_NumberOfOrders(@ShipRate decimal(2,1))
RETURNS TABLE
AS
RETURN
(
    SELECT * FROM Sales.Store S
    JOIN Sales.Customer C ON C.StoreID = S.BusinessEntityID
    JOIN Sales.SalesOrderHeader SOH ON SOH.CustomerID = C.CustomerID
    JOIN Purchasing.ShipMethod SH ON SH.ShipMethodID = SOH.ShipMethodID

    WHERE S.Name = 'Next-Door Bike Store'
    AND OrderDate BETWEEN '2011-06-12' AND '2014-07-12'
    AND ShipRate >= @ShipRate
);

SELECT * FROM Fn_NumberOfOrders(1.0)
```

100 %

Results Messages

	BusinessEntityID	Name	SalesPersonID	Demographics	ro
1	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
2	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
3	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
4	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
5	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
6	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A
7	292	Next-Door Bike Store	279	<StoreSurvey xmlns="http://schemas.microsoft.com..."	A

Query executed successfully.