Sql code :

**1. vw\_ProductStartingWithL**

CREATE VIEW vw\_ProductStartingWithL AS

SELECT

ProductID,

ProductNumber,

Name

FROM

Production.Product

WHERE

SellStartDate IS NOT NULL

AND Name LIKE 'L%';

To query with sorting:

SELECT

ProductID,

ProductNumber,

Name

FROM

vw\_ProductStartingWithL

ORDER BY

Name ASC;

**2. vw\_CustomerOrderSummary**

CREATE VIEW vw\_CustomerOrderSummary AS

SELECT

CustomerID,

AVG(SubTotal) AS AverageSubtotal,

SUM(SubTotal) AS TotalSubtotal

FROM

Sales.SalesOrderHeader

GROUP BY

CustomerID, SalesPersonID;

To query with sorting:

SELECT

CustomerID,

AverageSubtotal,

TotalSubtotal

FROM

vw\_CustomerOrderSummary

ORDER BY

CustomerID DESC;

**3. vw\_ProductInventorySummary**

CREATE VIEW vw\_ProductInventorySummary AS

SELECT

ProductID,

SUM(Quantity) AS TotalQuantity

FROM

Production.ProductInventory

WHERE

Shelf IN ('A', 'C', 'H')

GROUP BY

ProductID

HAVING

SUM(Quantity) > 500;

To query with sorting:

SELECT

ProductID,

TotalQuantity

FROM

vw\_ProductInventorySummary

ORDER BY

ProductID ASC;

**4. vw\_PersonWithLLastName**

CREATE VIEW vw\_PersonWithLLastName AS

SELECT

p.BusinessEntityID,

p.FirstName,

p.LastName,

pp.PhoneNumber

FROM

Person.Person p

INNER JOIN

Person.PersonPhone pp ON p.BusinessEntityID = pp.BusinessEntityID

WHERE

p.LastName LIKE 'L%';

To query with sorting:

SELECT

BusinessEntityID,

FirstName,

LastName,

PhoneNumber

FROM

vw\_PersonWithLLastName

ORDER BY

LastName ASC,

FirstName ASC;

**5. vw\_EmployeesPerCity**

CREATE VIEW vw\_EmployeesPerCity AS

SELECT

a.City,

COUNT(bea.BusinessEntityID) AS NumberOfEmployees

FROM

Person.Address a

INNER JOIN

Person.BusinessEntityAddress bea ON a.AddressID = bea.AddressID

GROUP BY

a.City;

To query with sorting:

SELECT

City,

NumberOfEmployees

FROM

vw\_EmployeesPerCity

ORDER BY

City ASC;

**6. vw\_ContactTypeSummary**

CREATE VIEW vw\_ContactTypeSummary AS

SELECT

ct.ContactTypeID,

ct.Name AS ContactTypeName,

COUNT(bec.BusinessEntityID) AS NumberOfContacts

FROM

Person.BusinessEntityContact bec

INNER JOIN

Person.ContactType ct ON bec.ContactTypeID = ct.ContactTypeID

GROUP BY

ct.ContactTypeID, ct.Name

HAVING

COUNT(bec.BusinessEntityID) >= 100;

To query with sorting:

SELECT

ContactTypeID,

ContactTypeName,

NumberOfContacts

FROM

vw\_ContactTypeSummary

ORDER BY

NumberOfContacts DESC;

**7. vw\_EmployeeCity**

CREATE VIEW vw\_EmployeeCity AS

SELECT

p.FirstName,

p.LastName,

a.City

FROM

Person.Person p

INNER JOIN

HumanResources.Employee e ON p.BusinessEntityID = e.BusinessEntityID

INNER JOIN

Person.BusinessEntityAddress bea ON e.BusinessEntityID = bea.BusinessEntityID

INNER JOIN

Person.Address a ON bea.AddressID = a.AddressID;

To query with sorting:

SELECT

FirstName,

LastName,

City

FROM

vw\_EmployeeCity

ORDER BY

LastName ASC,

FirstName ASC;

