**LET’S DO THIS**

* Inner join with alias

USE AdventureWorks2014;

GO

SELECT \*

FROM HumanResources.Employee AS e

**INNER JOIN** Person.Person AS p

ON e.BusinessEntityID = p.BusinessEntityID

ORDER BY p.LastName

SELECT DISTINCT p.ProductID, p.Name, p.ListPrice, sd.UnitPrice AS 'Selling Price'

FROM Sales.SalesOrderDetail AS sd

**JOIN** Production.Product AS p

ON sd.ProductID = p.ProductID AND sd.UnitPrice < p.ListPrice

WHERE p.ProductID = 718;

* Outer Join

SELECT p.Name, pr.ProductReviewID

FROM Production.Product p

**LEFT OUTER JOIN** Production.ProductReview pr

ON p.ProductID = pr.ProductID

USE AdventureWorks2008R2;

GO

SELECT st.Name AS Territory, sp.BusinessEntityID

FROM Sales.SalesTerritory st

**RIGHT OUTER JOIN** Sales.SalesPerson sp

ON st.TerritoryID = sp.TerritoryID ;

SELECT p.Name, sod.SalesOrderID

FROM Production.Product p

**FULL OUTER JOIN** Sales.SalesOrderDetail sod

ON p.ProductID = sod.ProductID

WHERE p.ProductID IS NULL

OR sod.ProductID IS NULL

ORDER BY p.Name ;

* Cross Join

SELECT p.BusinessEntityID, t.Name AS Territory

FROM Sales.SalesPerson p

**CROSS JOIN** Sales.SalesTerritory t

ORDER BY p.BusinessEntityID;

SELECT st.Name AS TerritoryName, sp.BusinessEntityID,

    sp.SalesQuota, sp.SalesYTD

FROM Sales.SalesPerson AS sp

    JOIN Sales.SalesTerritory AS st

        ON sp.TerritoryID = st.TerritoryID

ORDER BY st.Name, sp.BusinessEntityID

* SubQueries

SELECT Name

FROM AdventureWorks2014.Production.Product

WHERE ListPrice =

*(SELECT ListPrice*

*FROM AdventureWorks2014.Production.Product*

*WHERE Name = 'Chainring Bolts' );*

SubQueries with IN

USE AdventureWorks2014;

GO

SELECT Name

FROM Production.Product

WHERE ProductSubcategoryID **IN**

*(SELECT ProductSubcategoryID*

*FROM Production.ProductSubcategory*

*WHERE Name = 'Wheels');*

SELECT Name

FROM Production.Product

WHERE ProductSubcategoryID **NOT IN**

(SELECT ProductSubcategoryID

FROM Production.ProductSubcategory

WHERE Name = 'Mountain Bikes'

OR Name = 'Road Bikes'

OR Name = 'Touring Bikes')

**UPDATE** Production.Product

**SET** ListPrice = ListPrice \* 2

**WHERE** ProductID **IN**

(SELECT ProductID

FROM Purchasing.ProductVendor

WHERE BusinessEntityID = 1540