-- 1.1: Retrieve all data from the Sales Customer table

SELECT \* FROM Production.Product

-- 1.2: Retrieve all data from the Order Detail table

SELECT \* FROM Production.ProductCategory

SELECT \* FROM Production.ProductSubcategory

SELECT \* FROM Production.ProductCostHistory

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-- Task Two: INNER JOIN

-- In this task, you will retrieve data from the four

-- tables using INNER JOIN

SELECT \*

FROM Production.Product as a

INNER JOIN Production.ProductSubcategory as b

ON a.ProductSubcategoryID = b.ProductSubcategoryID

INNER JOIN Production.ProductCategory as c

on b.ProductCategoryID = c.ProductCategoryID

ORDER BY c.Name

-- INNER JOIN

-- 2.1: Extract all Product ID, Product Name, Product Sub Category

-- and Category Name. Order by the Category Name

SELECT a.ProductID, a.Name, a.StandardCost,b.ProductSubcategoryID, c.Name as CategoryName

FROM Production.Product as a

INNER JOIN Production.ProductSubcategory as b

ON a.ProductSubcategoryID = b.ProductSubcategoryID

INNER JOIN Production.ProductCategory as c

on b.ProductCategoryID = c.ProductCategoryID

ORDER BY c.Name

-- add Modified dat of the product

SELECT a.ProductID, a.Name, a.StandardCost,b.ProductSubcategoryID, c.Name as CategoryName, c.ModifiedDate

FROM Production.Product as a

INNER JOIN Production.ProductSubcategory as b

ON a.ProductSubcategoryID = b.ProductSubcategoryID

INNER JOIN Production.ProductCategory as c

on b.ProductCategoryID = c.ProductCategoryID

ORDER BY c.Name ASC

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-- Task Three: Duplicate Records

-- In this task, you will retrieve data from the two

-- tables with duplicate records using INNER JOIN

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-- Duplicate Records

-- 3.1: Let us add some duplicate records

-- Count all the products in each categories

SELECT \* FROM Production.ProductCategory

SELECT \* FROM Production.ProductSubcategory

SELECT \* FROM Production.ProductCostHistory

SELECT a.ProductCategoryID,a.Name, b.ProductCategoryID,

count(b.ProductCategoryID)as Count\_of\_Products

FROM Production.ProductCategory as a

INNER JOIN Production.ProductSubcategory as b

on b.ProductCategoryID = a.ProductCategoryID

GROUP BY b.ProductCategoryID,a.ProductCategoryID, a.Name