***CASE STUDY-GROUP 1***

***ER DIAGRAM***

**Inventory**

* FK Region\_ID
* FK Plant\_ID
* FK Product\_ID
* FK\_Mode\_ID
* Quantity\_OnHand
* ReOrder\_Quantity
* Revenue

**Manufacturing Region**

* PK Region\_ID
* Region\_Name
* City
* State

**Product Component**

* PK Component\_ID
* FK Model\_ID
* FK Product\_ID
* Description
* Wholesale Price
* Retail Price
* Eligible for Discount

**Product**

* PK Product\_ID
* Description
* Product Name

**Order\_Line**

* PK Order\_Line\_ID
* FK Sales\_Region\_ID
* FK Outlet\_ID
* FK Order\_ID
* Quantity
* FK Plant\_ID

**Manufacturing\_Plant**

* PK Plant\_ID
* Plant\_Name
* FK Man\_Region\_ID
* FK Plant\_ManagerID

**Product Model**

* PK Model\_ID
* FK Product\_ID
* Description
* Wholesale Price
* Retail Price
* Eligible for Discount

**Order**

* PK Order\_ID
* FK Region\_ID
* FK Store\_ID
* FK Customer\_ID
* FK Cust\_Location\_ID
* FK Sales\_Person\_ID

**Employee**

* PK Emp\_ID
* FK Department\_ID
* First\_Name
* Last\_Name
* Salary

**Sales Region**

* PK Region\_ID
* Region\_Name
* City
* State

**Customer**

* PK Customer\_ID
* FK Sales\_Emp\_ID
* First\_Name
* Last\_Name
* Phone\_Number
* Email
* Address

**Sales Person**

* PK Sales\_Emp\_ID
* FK Corporate\_Outlet\_ID
* First\_Name
* Last\_Name
* Salary

**Customer\_Shipping**

* PK Location\_ID
* FK Customer\_ID
* Address

**Department**

* PK Department\_ID
* Department\_Name

**Retail\_Outlet**

* FK Store\_ID
* FK Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address

**Corporate\_Outlet**

* FK Store\_ID
* FK Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address

**Sales Outlet**

* PK Store\_ID
* FK Sales\_Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address
* Type

***SALES FACT***

**DimManufacturing**

* PK Manufacturing\_Plant\_ID
* Manufacturing\_Region\_Name
* Plant\_Name

**DimTime**

* PK Time\_ID
* DayOfWeek
* WeekOfMonth
* MonthOfYear

**FactSales**

* FK Store\_ID
* FK Product\_ID
* FK Manufacturing\_Plant\_ID
* FK Customer\_ID
* FK Time\_ID
* FK Order\_ID
* Total Cost
* Total Revenue
* Total Quantity\_sold
* Discount\_Amount

**DimProduct**

* PK Product\_ID
* From\_Date
* To\_Date
* Description
* Model\_Code
* Unit\_Cost
* Wholesale\_Price
* Retail\_Price
* Eligible\_For\_Discount

**DimCustomer**

* PK Customer\_ID
* Cust\_Name
* Shipping\_Address

**DimSeller**

* PK Store\_ID
* Region
* Name
* Type
* Sales\_Person
* Number
* Order\_Quantity

***INVENTORY FACT***

**DimManufacturing**

* PK Manufacturing\_Plant\_ID
* Manufacturing\_Region\_Name
* Plant\_Name

**DimProduct**

* PK Product\_ID
* From\_Date
* To\_Date
* Description
* Model\_Code
* Unit\_Cost
* Wholesale\_Price
* Retail\_Price
* Eligible\_For\_Discount

**DimTime**

* PK Time\_ID
* DayOfWeek
* WeekOfMonth
* MonthOfYear

**FactInventory**

* FK Product\_ID
* FK Manufacturing\_Plant\_ID
* FK Time\_ID
* Total Cost
* Total Revenue
* Quantity\_OnHand
* ReOrder\_Level

**Inventory**

* FK Region\_ID
* FK Plant\_ID
* FK Product\_ID
* FK\_Mode\_ID
* Quantity\_OnHand
* ReOrder\_Quantity
* Revenue

**Manufacturing Region**

* PK Region\_ID
* Region\_Name
* City
* State

**Product Component**

* PK Component\_ID
* FK Model\_ID
* FK Product\_ID
* Description
* Wholesale Price
* Retail Price
* Eligible for Discount

**Product**

* PK Product\_ID
* Description
* Product Name

**Order\_Line**

* PK Order\_Line\_ID
* FK Sales\_Region\_ID
* FK Outlet\_ID
* FK Order\_ID
* Quantity
* FK Plant\_ID

**Manufacturing\_Plant**

* PK Plant\_ID
* Plant\_Name
* FK Man\_Region\_ID
* FK Plant\_ManagerID

**Product Model**

* PK Model\_ID
* FK Product\_ID
* Description
* Wholesale Price
* Retail Price
* Eligible for Discount

**Order**

* PK Order\_ID
* FK Region\_ID
* FK Store\_ID
* FK Customer\_ID
* FK Cust\_Location\_ID
* FK Sales\_Person\_ID

**Employee**

* PK Emp\_ID
* FK Department\_ID
* First\_Name
* Last\_Name
* Salary

**Sales Region**

* PK Region\_ID
* Region\_Name
* City
* State

**Customer**

* PK Customer\_ID
* FK Sales\_Emp\_ID
* First\_Name
* Last\_Name
* Phone\_Number
* Email
* Address

**Sales Person**

* PK Sales\_Emp\_ID
* FK Corporate\_Outlet\_ID
* First\_Name
* Last\_Name
* Salary

**Customer\_Shipping**

* PK Location\_ID
* FK Customer\_ID
* Address

**Department**

* PK Department\_ID
* Department\_Name

**Retail\_Outlet**

* FK Store\_ID
* FK Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address

**Corporate\_Outlet**

* FK Store\_ID
* FK Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address

**Sales Outlet**

* PK Store\_ID
* FK Sales\_Region\_ID
* FK Store\_Manager\_ID
* Outlet\_Name
* Address
* Type