

| MonthDim | |
|----------|---------------------------------|
| PK | <u>MonthDim_id</u> int NOT NULL |

| CustomerDim | |
|-------------|-------------------------------------|
| PK | <u>customer_id</u> int NOT NULL |
| | customer_name char(100) NOT NULL |
| | customer_city char(100) NOT NULL |
| | customer_state char(100) NOT NULL |
| | customer_country char(100) NOT NULL |
| | Effective_date date NOT NULL |

| PK | <u>Product_id</u> |
|----|---------------------|
| | Product_name |
| | Product_category |
| | Product_subcategory |
| | Effective_date |
| | End_date |

| ProductDim |
|-------------------------------|
| <u>id int NOT NULL</u> |
| name char(150) NOT NULL |
| category char(100) NOT NULL |
| subcategory char(50) NOT NULL |
| date date NOT NULL |
| date NOT NULL |

| PopulationDim | |
|---------------|-----------------------------------|
| PK | <u>Population_id int NOT NULL</u> |
| | PopReference char(50) NOT NULL |
| | PopCategory char(50) NOT NULL |
| | PopGCAMRegion int NOT NULL |
| | PopCountry char(100) NOT NULL |
| | Efficiency float NOT NULL |

| | |
|--|---------|
| | Month |
| | Quarter |
| | Year |

(SCD 0)

| |
|-------------------------------|
| End_date date NOT NULL |
| CurrentFlag char(10) NOT NULL |

(SCD 2)

| ShipmentDim | |
|-------------|---------------------------------|
| PK | <u>shipment_id</u> int NOT NULL |
| | shipment_date date NOT NULL |
| | shipment_mode char(50) NOT NULL |

(SCD 1)

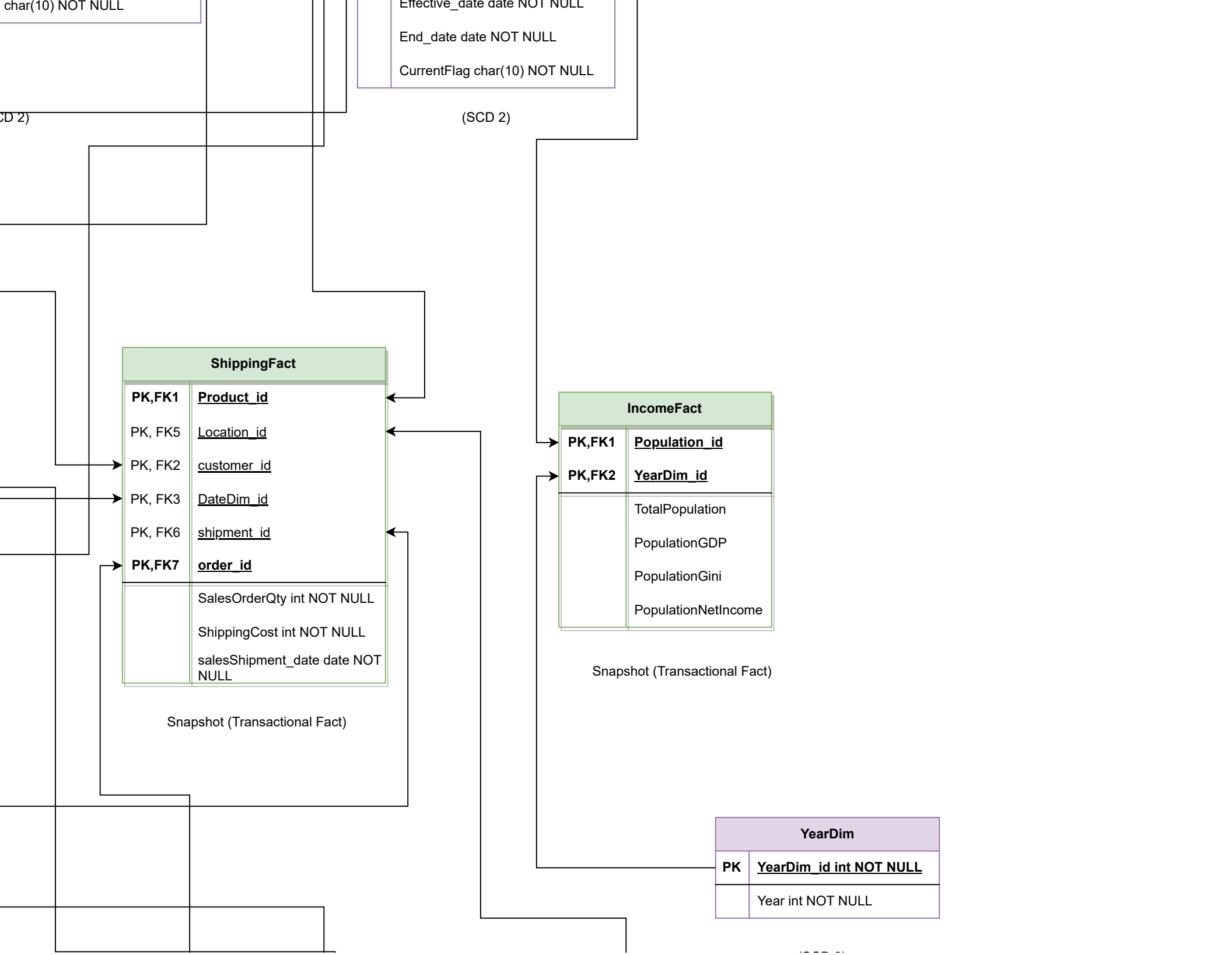
| SalesCumFact | |
|--------------|-----------------------------------|
| PK,FK1 | <u>Product_id</u> |
| PK, FK2 | <u>customer_id</u> |
| PK, FK3 | <u>MonthDim_id</u> |
| PK, FK5 | Location_id |
| PK, FK4 | <u>Market_id</u> |
| PK, FK4 | <u>Population_id</u> int NOT NULL |
| PK, FK6 | <u>shipment_id</u> |
| PK,FK7 | <u>order_id</u> |
| | AvgSalesOrderQty |
| | AvgSalesAmount |
| | AvgSalesDiscount |
| | AvgProfit |

Cummulative fact

| SalesFact | |
|-----------|-----------------------------------|
| PK,FK1 | <u>Product_id</u> |
| PK, FK2 | <u>customer_id</u> |
| PK, FK3 | <u>DateDim_id</u> |
| PK, FK5 | Location_id |
| PK, FK4 | <u>Market_id</u> |
| PK, FK4 | <u>Population_id</u> int NOT NULL |
| PK, FK6 | <u>shipment_id</u> |
| PK,FK7 | <u>order_id</u> |
| | SalesOrderQty |
| | SalesAmount |
| | SalesDiscount |

Snapshot (Transactional Fact)

| DateDim | |
|---------|--------------------------------|
| PK | <u>DateDim_id</u> int NOT NULL |
| | Date date NOT NULL |
| | Day char(50) NOT NULL |

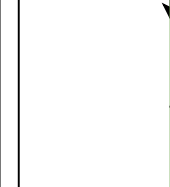
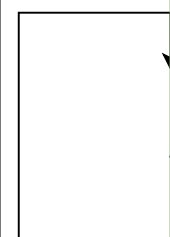
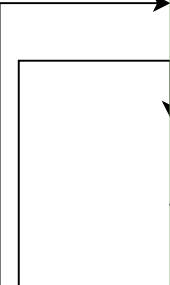
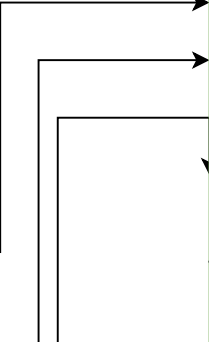
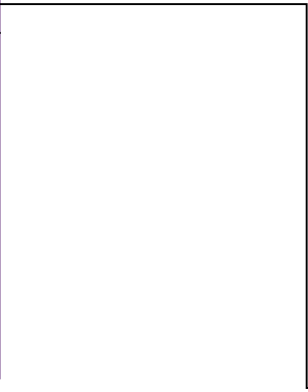


| ProductDim | |
|------------|---------------------------------------|
| PK | <u>Product_id</u> int NOT NULL |
| | Product_name char(150) NOT NULL |
| | Product_category char(100) NOT NULL |
| | Product_subcategory char(50) NOT NULL |
| | Effective_date date NOT NULL |
| | End_date date NOT NULL |
| | CurrentFlag char(10) NOT NULL |

(SCD 2)

| CustomerDim | |
|-------------|----------------------------------|
| PK | <u>customer_id</u> int NOT NULL |
| | customer_name char(100) NOT NULL |

| ShippingFact | |
|--------------|----------------------------|
| PK,FK1 | <u>Product_id</u> |
| PK, FK2 | <u>customer_id</u> |
| PK, FK3 | <u>DateDim_id</u> |
| PK, FK5 | <u>Location_id</u> |
| PK, FK6 | <u>shipment_id</u> |
| PK,FK7 | <u>order_id</u> |
| | SalesOrderQty int NOT NULL |
| | ShipDate datetime NOT NULL |



| |
|--------------------|
| Month int NOT NULL |
| Year int NOT NULL |

(SCD 0)

| MarketDim | |
|-----------|-----------------------------------|
| PK | <u>Market_id</u> int NOT NULL |
| | market_segment char(50) NOT NULL |
| | market_category char(50) NOT NULL |
| | market_region char(50) NOT NULL |

(SCD 1)

| PK | <u>order_id</u> int |
|----|---------------------|
| | order_date |
| | order_priority |
| | Effective_date |
| | End_date date |
| | CurrentFlag |

| ShipmentDim | |
|-------------|---------------------------------|
| PK | <u>shipment_id</u> int NOT NULL |
| | shipment_date date NOT NULL |
| | shipment_mode char(50) NOT NULL |

(SCD 1)

| PopulationDim | |
|---------------|-----------------------------------|
| PK | <u>Population_id</u> int NOT NULL |
| | PopReference char(50) NOT NULL |
| | PopCategory char(50) NOT NULL |
| | PopGCAMRegion int NOT NULL |
| | PopCountry char(100) NOT NULL |
| | Effective_date date NOT NULL |
| | End_date date NOT NULL |

| Income | |
|--------|---------------|
| PK,FK1 | <u>Pop_id</u> |
| PK,FK2 | <u>Year</u> |
| | To |
| | Pop |
| | Pop |
| | Pop |

| OrderDim |
|---------------------------------|
| <u>Order_id int NOT NULL</u> |
| Order_date NOT NULL |
| Order_city char(50) NOT NULL |
| Order_date_time NOT NULL |
| Order_status NOT NULL |
| Order_channel char(10) NOT NULL |

(SCD 2)

| LocationDim | |
|-------------|---------------------------------|
| PK | <u>Location_id int NOT NULL</u> |
| | Region char(50) NOT NULL |
| | City char(100) NOT NULL |
| | State char(100) NOT NULL |
| | Country char(100) NOT NULL |

(SCD 1)

(SCD 0)

| IncomeFact |
|-----------------------------------|
| <u>IncomeFact_id int NOT NULL</u> |
| <u>Population_id int NOT NULL</u> |
| <u>YearDim_id int NOT NULL</u> |
| TotalPopulation |
| PopulationGDP |
| PopulationGini |
| PopulationNetIncome |

| YearDim | |
|---------|--------------------------------|
| PK | <u>YearDim_id int NOT NULL</u> |
| | Year int NOT NULL |

(SCD 0)



| |
|-------------------------------------|
| customer_city char(100) NOT NULL |
| customer_state char(100) NOT NULL |
| customer_country char(100) NOT NULL |
| Effective_date date NOT NULL |
| End_date date NOT NULL |
| CurrentFlag char(10) NOT NULL |

(SCD 2)

| |
|----------------------------------|
| ShippingCost int NOT NULL |
| salesShipment_date date NOT NULL |

Snapshot (Transactional Fact)

| DateDim | |
|---------|--------------------------------|
| PK | <u>DateDim_id int NOT NULL</u> |
| | Date date NOT NULL |
| | Day char(50) NOT NULL |
| | Month int NOT NULL |
| | Year int NOT NULL |

(SCD 0)

| LocationDim | |
|-------------|---------------------------------|
| PK | <u>Location_id int NOT NULL</u> |
| | Region char(50) NOT NULL |
| | City char(100) NOT NULL |
| | State char(100) NOT NULL |
| | Country char(100) NOT NULL |

(SCD 1)

| ProductDim | |
|------------|---------------------------------------|
| PK | <u>Product_id int NOT NULL</u> |
| | Product_name char(150) NOT NULL |
| | Product_category char(100) NOT NULL |
| | Product_subcategory char(50) NOT NULL |
| | Effective_date date NOT NULL |
| | End_date date NOT NULL |
| | CurrentFlag char(10) NOT NULL |

(SCD 2)

| OrderDim | |
|----------|----------------------------------|
| PK | <u>order_id</u> int NOT NULL |
| | order_date date NOT NULL |
| | order_priority char(50) NOT NULL |
| | Effective_date date NOT NULL |
| | End_date date NOT NULL |
| | CurrentFlag char(10) NOT NULL |

(SCD 2)

| | |
|--|-------------------------------|
| | CurrentFlag char(10) NOT NULL |
|--|-------------------------------|

(SCD 2)

Snapshot ("

| MarketDim | |
|-----------|-----------------------------------|
| PK | <u>Market_id</u> int NOT NULL |
| | market_segment char(50) NOT NULL |
| | market_category char(50) NOT NULL |
| | market_region char(50) NOT NULL |

(SCD 1)

| PopulationDim | |
|---------------|-----------------------------------|
| PK | <u>Population_id</u> int NOT NULL |
| | PopReference char(50) NOT NULL |
| | PopCategory char(50) NOT NULL |
| | PopGCAMRegion int NOT NULL |
| | PopCountry char(100) NOT NULL |

| SalesFact | |
|-----------|----------------------|
| PK,FK1 | <u>Product_id</u> |
| PK,FK2 | <u>Market_id</u> |
| PK,FK3 | <u>Population_id</u> |

Transactional Fact)

| ProductDim | |
|------------|-------------------------|
| PK | Product_id int NOT NULL |

| MarketDim | |
|-----------|-----------------------------------|
| PK | <u>Market_id</u> int NOT NULL |
| | market_segment char(50) NOT NULL |
| | market_category char(50) NOT NULL |
| | market_region char(50) NOT NULL |

(SCD 2)

| CustomerDim | |
|-------------------------------------|---------------------------------|
| PK | <u>customer_id</u> int NOT NULL |
| customer_name char(100) NOT NULL | |
| customer_city char(100) NOT NULL | |
| customer_state char(100) NOT NULL | |
| customer_country char(100) NOT NULL | |
| Effective_date date NOT NULL | |
| End_date date NOT NULL | |
| CurrentFlag char(10) NOT NULL | |

(SCD 2)

| DateDim | |
|-----------------------|--------------------------------|
| PK | <u>DateDim_id</u> int NOT NULL |
| Date date NOT NULL | |
| Day char(50) NOT NULL | |
| Month int NOT NULL | |
| Year int NOT NULL | |

(SCD 0)

| | |
|---------|-----------------------------------|
| PK, FK2 | <u>customer_id</u> |
| PK, FK3 | <u>DateDim_id</u> |
| PK, FK5 | Location_id |
| PK, FK4 | <u>Market_id</u> |
| PK, FK4 | <u>Population_id</u> int NOT NULL |
| PK, FK6 | <u>shipment_id</u> |
| PK,FK7 | <u>order_id</u> |
| | SalesOrderQty |
| | SalesAmount |
| | SalesDiscount |

Snapshot (Transactional Fact)

| LocationDim | |
|-------------|---------------------------------|
| PK | <u>Location_id</u> int NOT NULL |
| | Region char(50) NOT NULL |
| | City char(100) NOT NULL |
| | State char(100) NOT NULL |
| | Country char(100) NOT NULL |

(SCD 1)

| |
|-------------------------------|
| PopCountry char(100) NOT NULL |
| Effective_date date NOT NULL |
| End_date date NOT NULL |
| CurrentFlag char(10) NOT NULL |

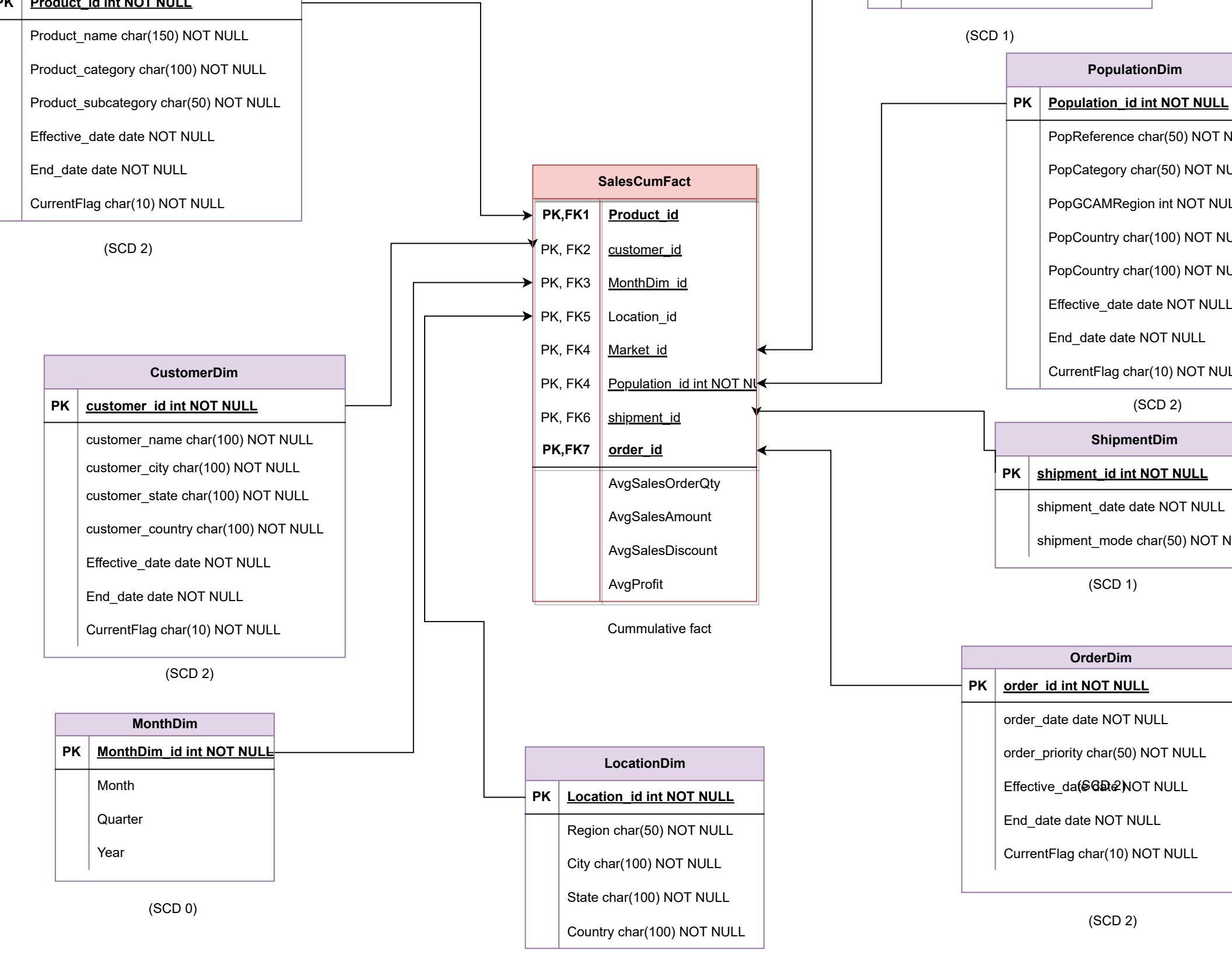
(SCD 2)

| ShipmentDim | |
|-------------|---------------------------------|
| PK | <u>shipment_id</u> int NOT NULL |
| | shipment_date date NOT NULL |
| | shipment_mode char(50) NOT NULL |

(SCD 1)

| OrderDim | |
|----------|----------------------------------|
| PK | <u>order_id</u> int NOT NULL |
| | order_date date NOT NULL |
| | order_priority char(50) NOT NULL |
| | Effective_date date NOT NULL |
| | End_date date NOT NULL |
| | CurrentFlag char(10) NOT NULL |

(SCD 2)



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