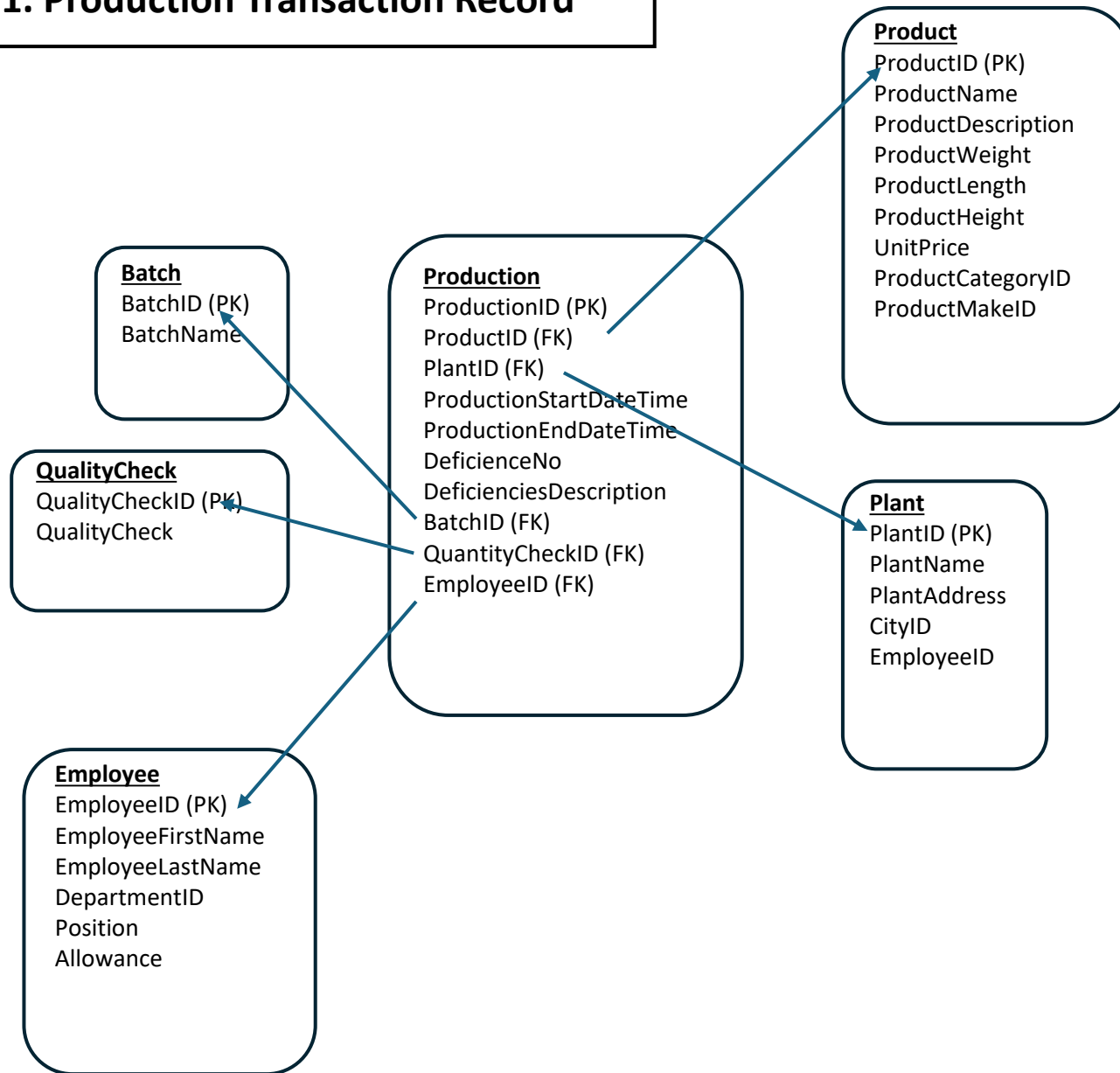
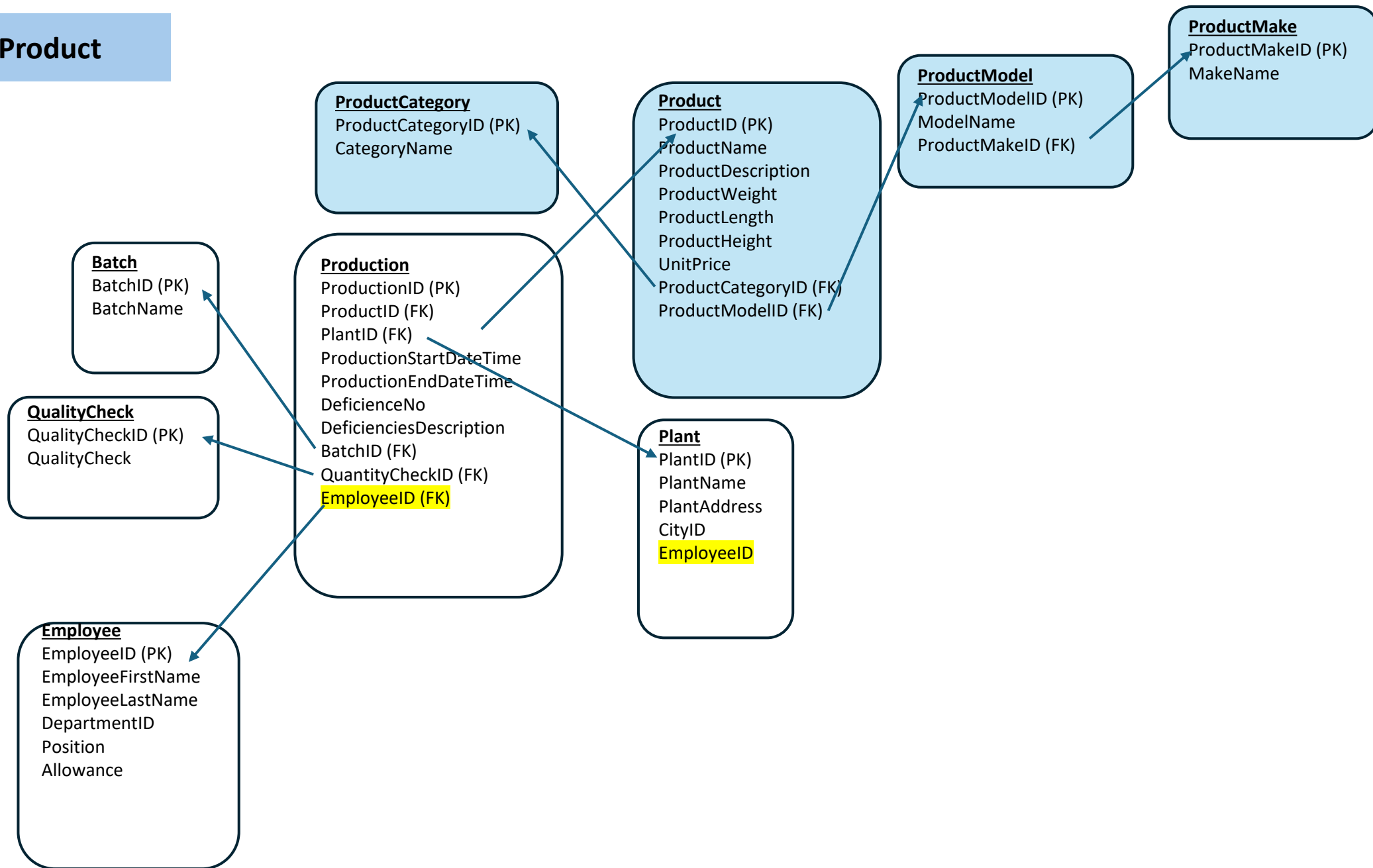


Inova Relational Data Model

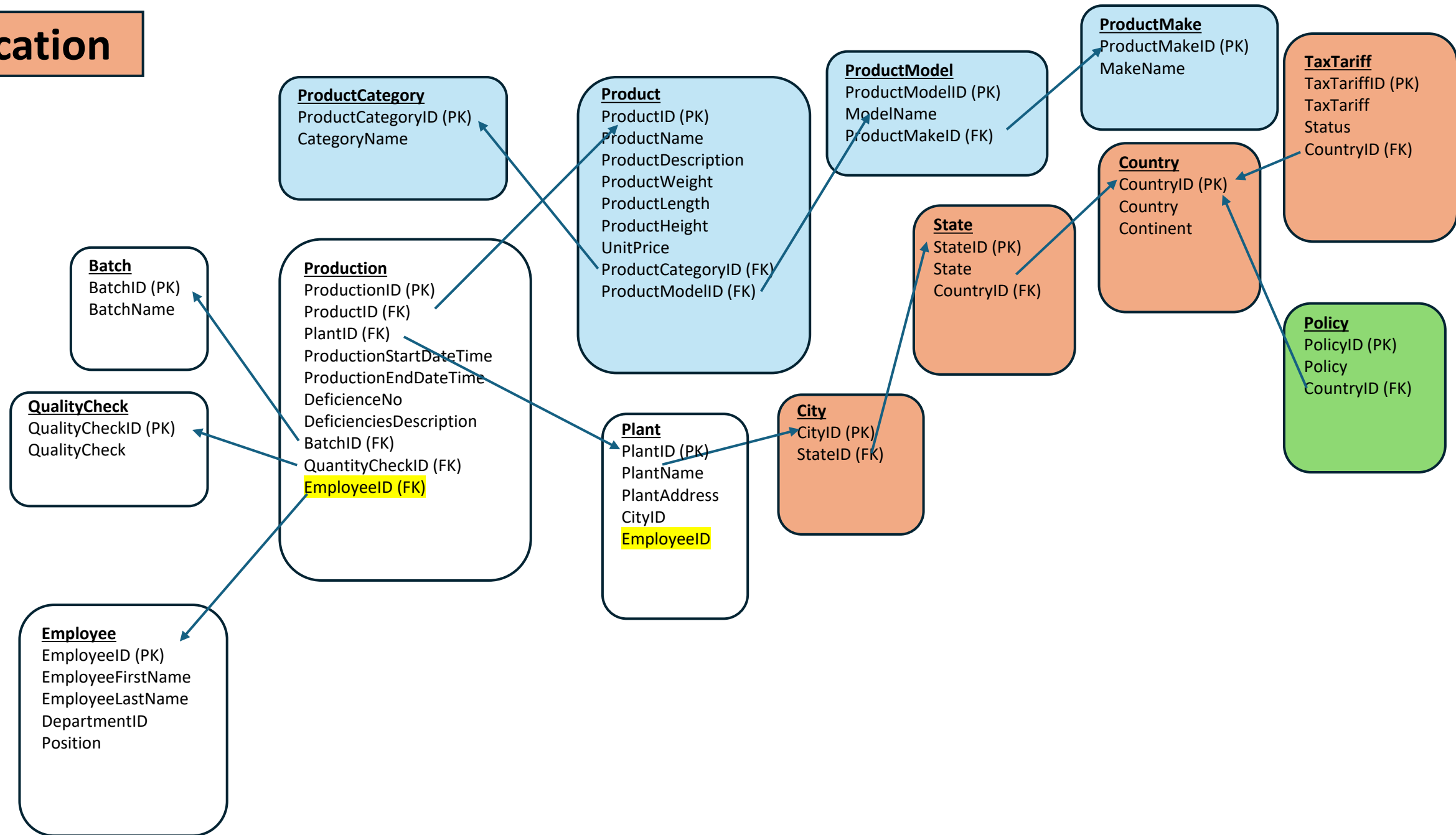
1. Production Transaction Record



Product



Location



Employee

ProductCategory

ProductCategoryID (PK)
CategoryName

Product

ProductID (PK)
ProductName
ProductDescription
ProductWeight
ProductLength
ProductHeight
UnitPrice
ProductCategoryID (FK)
ProductModelID (FK)

ProductModel

ProductModelID (PK)
ModelName
ProductMakeID (FK)

ProductMake

ProductMakeID (PK)
MakeName

TaxTariff

TaxTariffID (PK)
TaxTariff
Status
CountryID (FK)

Country

CountryID (PK)
Country
Continent

State

StateID (PK)
State
CountryID (FK)

Policy

PolicyID (PK)
Policy
CountryID (FK)

Batch

BatchID (PK)
BatchName

Production

ProductionID (PK)
ProductID (FK)
PlantID (FK)
ProductionStartDateTime
ProductionEndDateTime
DeficienceNo
DeficienciesDescription
BatchID (FK)
QuantityCheckID (FK)
EmployeeID (FK)

QualityCheck

QualityCheckID (PK)
QualityCheck

Plant

PlantID (PK)
PlantName
PlantAddress
CityID
EmployeeID

City

CityID (PK)
StateID (FK)

Department

DepartmentID (PK)
Department

Shift

ShiftID (PK)
EmployeeID(FK)
ShiftStartDateTime
ShiftEndDateTime

Employee

EmployeeID (PK)
EmployeeFirstName
EmployeeLastName
DepartmentID (FK)
Position
Allowance

Overtime

OvertimeID (PK)
EmployeeID(FK)
OvertimeStartDateTime
OvertimeEndDateTime

Logistics

ProductCategory

ProductCategoryID (PK)
CategoryName

Product

ProductID (PK)
ProductName
ProductDescription
ProductWeight
ProductLength
ProductHeight
UnitPrice
ProductCategoryID (FK)
ProductModelID (FK)

ProductModel

ProductModelID (PK)
ModelName
ProductMakeID (FK)

ProductMake

ProductMakeID (PK)
MakeName

TaxTariff

TaxTariffID (PK)
TaxTariff
Status
CountryID (FK)

Country

CountryID (PK)
Country
Continent

State

StateID (PK)
State
CountryID (FK)

Policy

PolicyID (PK)
Policy
CountryID (FK)

Logistics

LogisticsID (PK)
ProductID (FK)
PlantID (FK)
QuantityShippedIn
QuantityShippedOut
ShippingOutDatetime
ShippingInDatetime
DeliveryDatetime
DeliveryMethod
DeliveryStatusID (FK)
WarehouseID (FK)
EmployeeID (FK)
CustomerID(FK)
ClosingDatetime
SalesOrderID (FK)

DeliveryStatus

DeliveryStatusID (PK)
DeliveryStatus

Plant

PlantID (PK)
PlantName
PlantAddress
CityID
EmployeeID

City

CityID (PK)
StateID (FK)

Department

DepartmentID (PK)
Department

Shift

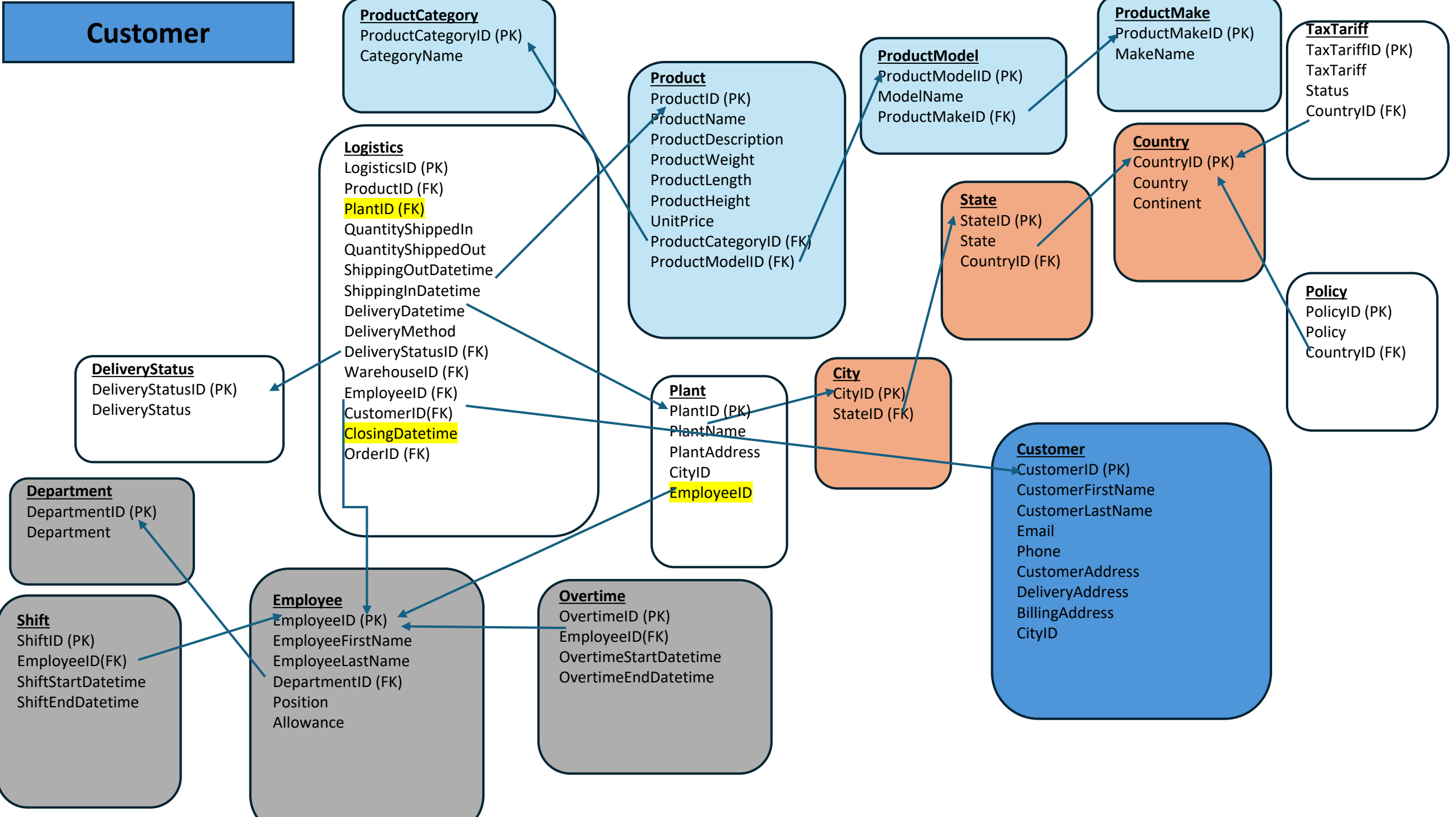
ShiftID (PK)
EmployeeID(FK)
ShiftStartDatetime
ShiftEndDatetime

Employee

EmployeeID (PK)
EmployeeFirstName
EmployeeLastName
DepartmentID (FK)
Position
Allowance

Overtime

OvertimeID (PK)
EmployeeID(FK)
OvertimeStartDatetime
OvertimeEndDatetime



Sales

ProductCategory

ProductCategoryID (PK)
CategoryName

Product

ProductID (PK)
ProductName
ProductDescription
ProductWeight
ProductLength
ProductHeight
UnitPrice
ProductCategoryID (FK)
ProductModelID (FK)

ProductModel

ProductModelID (PK)
ModelName
ProductMakeID (FK)

ProductMake

ProductMakeID (PK)
MakeName

Sales

SalesOrderID (PK)
ProductID (FK)
QuantitySold
OrderDatetime
Deposit
TransactionDatetime
PaymentMethod
Total Amount
Tax
Discount
WarehouseID (FK)
EmployeeID (FK)
CustomerID (FK)

Department

DepartmentID (PK)
Department

Shift

ShiftID (PK)
EmployeeID (FK)
ShiftStartDatetime
ShiftEndDatetime

Employee

EmployeeID (PK)
EmployeeFirstName
EmployeeLastName
DepartmentID (FK)
Position
Allowance

Overtime

OvertimeID (PK)
EmployeeID (FK)
OvertimeStartDatetime
OvertimeEndDatetime

Customer

CustomerID (PK)
CustomerFirstName
CustomerLastName
Email
Phone
CustomerAddress
DeliveryAddress
BillingAddress
CityID

Main Entity 1: Production Transaction Record

ProductCategory
ProductCategoryID (PK)
CategoryName

Product
ProductID (PK)
ProductName
ProductDescription
ProductWeight
ProductLength
ProductHeight
UnitPrice
ProductCategoryID (FK)
ProductModelID (FK)

ProductModel
ProductModelID (PK)
ModelName
ProductMakeID (FK)

ProductMake
ProductMakeID (PK)
MakeName

TaxTariff
TaxTariffID (PK)
TaxTariff
Status
CountryID (FK)

Country
CountryID (PK)
Country
Continent

State
StateID (PK)
State
CountryID (FK)

Policy
PolicyID (PK)
Policy
CountryID (FK)

City
CityID (PK)
StateID (FK)

Plant
PlantID (PK)
PlantName
Plant Address
CityID
EmployeeID

Production
ProductionID (PK)
ProductID (FK)
PlantID (FK)
ProductionStartDateTime
ProductionEndDateTime
DeficienceNo
DeficienciesDescription
BatchID (FK)
QuantityCheckID (FK)
EmployeeID (FK)

Batch
BatchID (PK)
BatchName

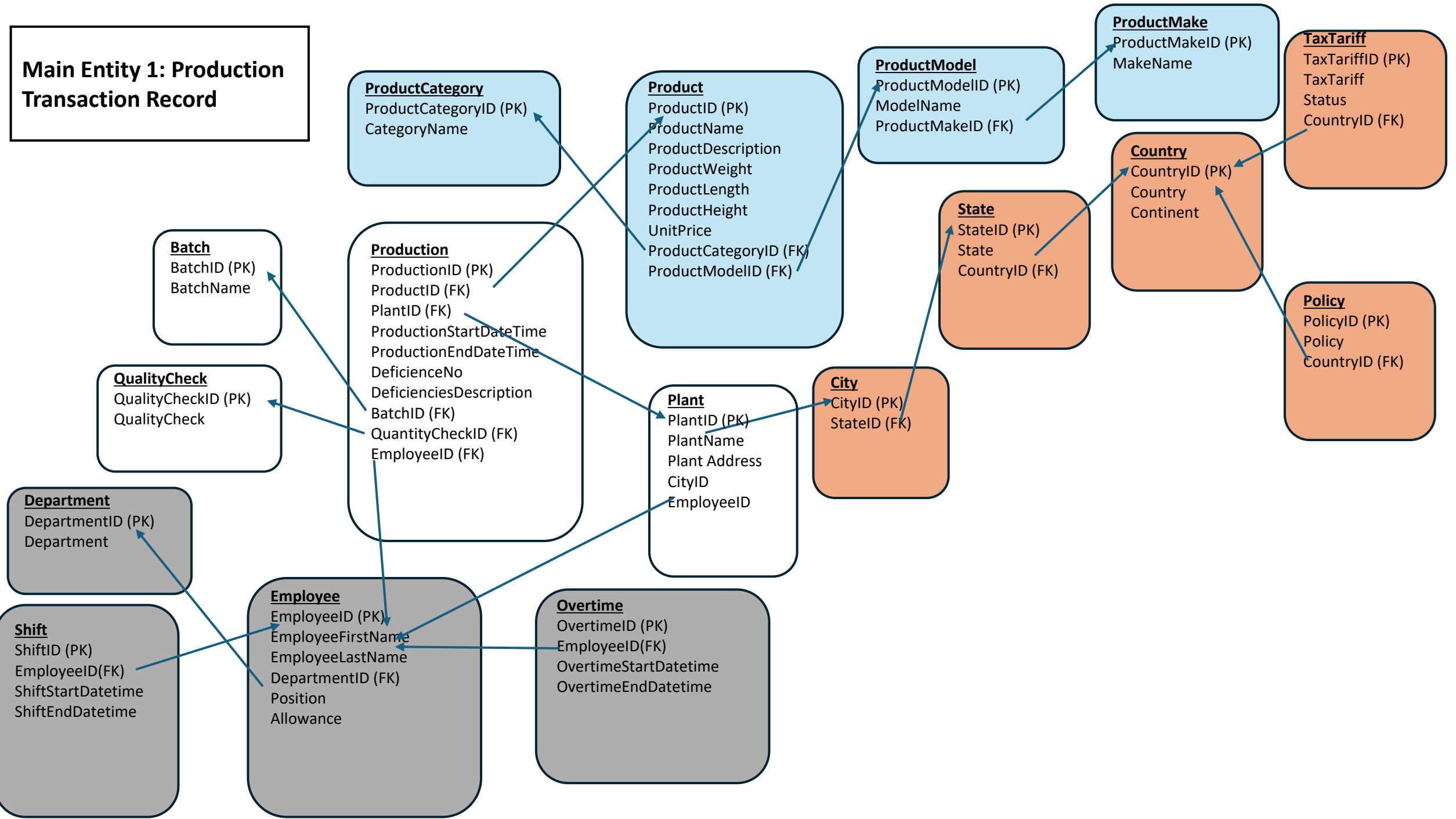
QualityCheck
QualityCheckID (PK)
QualityCheck

Department
DepartmentID (PK)
Department

Shift
ShiftID (PK)
EmployeeID(FK)
ShiftStartDatetime
ShiftEndDatetime

Employee
EmployeeID (PK)
EmployeeFirstName
EmployeeLastName
DepartmentID (FK)
Position
Allowance

Overtime
OvertimeID (PK)
EmployeeID(FK)
OvertimeStartDatetime
OvertimeEndDatetime



**Main Entity 2:
Sales Transaction Record**

ProductCategory

ProductCategoryID (PK)
CategoryName

Product

ProductID (PK)
ProductName
ProductDescription
ProductWeight
ProductLength
ProductHeight
UnitPrice
ProductCategoryID (FK)
ProductModelID (FK)

ProductModel

ProductModelID (PK)
ModelName
ProductMakeID (FK)

ProductMake

ProductMakeID (PK)
MakeName

TaxTariff

TaxTariffID (PK)
TaxTariff
Status
CountryID (FK)

Country

CountryID (PK)
Country
Continent

State

StateID (PK)
State
CountryID (FK)

Policy

PolicyID (PK)
Policy
CountryID (FK)

City

CityID (PK)
StateID (FK)

Sales

SalesOrderID (PK)
ProductID (FK)
QuantitySold
OrderDatetime
Deposit
TransactionDatetime
PaymentMethod
Total Amount
Tax
Discount
WarehouseID (FK)
EmployeeID (FK)
CustomerID (FK)

Department

DepartmentID (PK)
Department

Shift

ShiftID (PK)
EmployeeID (FK)
ShiftStartDatetime
ShiftEndDatetime

Employee

EmployeeID (PK)
EmployeeFirstName
EmployeeLastName
DepartmentID (FK)
OverTimeID (FK)
Position
Allowance

Overtime

OvertimeID (PK)
EmployeeID (FK)
OvertimeStartDatetime
OvertimeEndDatetime

Warehouse

WarehouseID (PK)
WarehouseName
WarehouseAddress
Capacity
CityID (FK)

Customer

CustomerID (PK)
CustomerFirstName
CustomerLastName
Email
Phone
CustomerAddress
DeliveryAddress
BillingAddress
CityID (FK)

Main Entity 3: Logistics Transaction Record

