**Database Constraints/Business Rules:**

**Database Constraints:**

In Company table:

Company\_code VARCHAR(10) PRIMARY KEY

Company\_Name CHAR(30) NOT NULL

In Products table:

Company\_code VARCHAR(10)

CONSTRAINT Company\_code\_FK FOREIGN KEY (Company\_code)

REFERENCES Company(Company\_code)

In Customer table:

Phone NUMERIC

CONSTRAINT Phone\_Num CHECK(LEN(Phone)=10)

Email\_Address VARCHAR(30) NOT NULL UNIQUE

In Shipper table:

Phone NUMERIC NOT NULL,

CONSTRAINT Phone\_No CHECK(LEN(Phone)=10),

CONSTRAINT Email CHECK(Email\_Address LIKE '%\_@\_%')

In ZIP table:

Customer\_State CHAR(20) NOT NULL DEFAULT 'Ontario'

**Business Rules:**

1. **We provide our shipment service only in Toronto City.**

For its implementation we add the below constraint in our ZIP table.

**CONSTRAINT Customer\_City CHECK(City= 'Toronto')**

1. **Place order of at least $50.**

For its implementation we add the below constraint in our Order\_Details

table.

**CONSTRAINT Minimum\_Order CHECK(Product\_Price \* Quantity > 850)**

1. **ID for generated orders should start with “COR” followed by any combination of numbers or characters.**

For its implementation we add the below constraint in our Customer\_Order table.

**CONSTRAINT ID\_format CHECK( Order\_ID LIKE 'COR%')**