Item (Item ID (PK), Description, Quantity, in stock, Price)

Transaction (Transaction (PK), date, time, Staff ID (PK, FK), Item ID (PK, FK), Quantity, price)

Staff (Staff ID (PK), name)

Supplier (Supplier ID (PK), name, address, phone, Item ID (PK, FK), Quantity, Staff ID (PK, FK))

Unnormal form

Item id

Description

Quantity

In stock

Price

Transaction

Date

Time

Staff id

Item id

Quantity

Price

Staff id

Name

Supplier id

Name

Address

Phone

Item id

Quantity

Staff id

1st normal form

Item id

Description

Quantity

In stock

Price

Staff id

Name

Supplier id

Name

Address

Phone

Item id

Quantity

Staff id

Transaction

Date

Time

Staff id

Item id

Quantity

Price

2nd normal form

Item id (PK)

Description

Quantity

In stock

Price

Staff id(PK)

Name

Supplier id (PK)

Name

Address

Phone

Staff id

Transaction (PK)

Date

Time

Staff id

Price

Supplier Item

Supplier id (PK)

Item id

Quatity

Tansaction item

Transaction no (PK)

Item id

Quantity

3rd normal form

Item

Item id (PK)

Description

Quantity

In stock

Price

Staff

Staff id (PK)

Name

Supplier

Supplier id (PK)

Name

Address

Phone

Staff id (FK)

Transaction

Transaction No (PK)

Date

Time

Staff id

Price

Supplier Item

Supplier id (PK, FK)

Item id (FK)

Quantity

Transaction item

Transaction no (PK, FK)

Item id (FK)

Quantity