



# **NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL**

Department of Computer Science and Engineering

## **DATABASE MANAGEMENT SYSTEMS PROJECT**

### **INVENTORY MANAGEMENT SYSTEM**

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#### **Problem Statement**

Proper handling of stocks and inventories is imperative for any business to survive and operate. The entirety of retail and wholesale businesses depend completely upon balance between incoming and outgoing stocks/inventory. Inconsistent tracking, warehouse inefficiencies, unorganized data storages, miscalculations, incomplete product information are some of many issues that such businesses face which potentially contributes to completely rupture in their supply-demand structure and their eventual collapse. Without exact information on existing inventory, businesses cannot take correct market decisions and risk over-stocking

or under-stocking of inventories while being completely out of phase with the market.

Logically, goods based businesses require proper storage. These storage units (warehouses) must store inventories in an efficient manner as well as provide all crucial information such as durability, expiry and quantity of these stocks. Lack of storage management systems happens to be one of the core problems of all scale businesses. Efficiency is key in shipping stocks out of or placing new stocks into the storage facility. Proper storage management systems in place would only handle the storage part of the business.

These businesses must also find proper markets to sell or trade their inventories. The demand and supply must be coherent with each other. The vulnerability of inventory based businesses has been well defined and exploited by the modern economy. Even though, from the customer's perspective, these markets are perhaps the most essential; they remain riddled with business-threatening issues within every aspect of it.

Inventory Management System tracks goods throughout the entire supply chain, from purchasing, storage to sales. The overall objective of inventory management is to achieve satisfactory levels of customer service while maintaining supply demand system efficiently. Guaranteeing inventory security while providing proper platform for consumer interactions must be the aim of these systems. After all, suppliers must be able to focus on customer orders with knowledge that the order corresponds to the availability of the products in the storage. This allows suppliers to focus on other important aspects of their business rather than worrying about only protecting the core of it. These systems are revolutionary to the business and perhaps the most important aspect of it.

This Inventory Management System will store information on the supplier. The supplier stores its inventories into the storage facility. The products are all accounted for and stored. The customers of these products connect with employees of the facility. The order details, bills and payment details are also stored into the system. The supplier can not only have inventory security, but also direct contact with the consumers, allowing them to combine both sectors of the business and take correct decisions.

Such management system software are life lines for businesses to cling onto and utilize to its potentials in order to keep up in this modern cybernetic capitalism. With information on all fronts of their business, these suppliers can also use statistical analysis tools for demand forecasting to maintain their supply-demand systems. Stock auditing can be performed on regular basis for accurate information.

## **CONTENTS**

- Tables
- ER Model Assumptions
- Functional Dependencies and Primary Keys
- Normalization
- ER Diagram
- Relational Schema with Normalized tables
- SQL Code

## **TABLES**

### **1) Customer**

<b>Attribute</b>	<b>Data Type</b>	<b>Constraints and Characteristics</b>
Customer_ID	VARCHAR2 (20)	Primary Key
Customer_name	VARCHAR2 (20)	Composite, Not Null
Customer_Phone_No	INT	Multi valued
Customer_E_mail	VARCHAR2 (20)	Not Null
Staff_ID	VARCHAR2 (20)	Foreign Key, Not Null

Order_ID	VARCHAR2 (20)	Foreign key, Not Null
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## 2) Employee

Attribute	Data Type	Constraints and Characterstics
Employee_ID	VARCHAR2 (20)	Primary Key
Employee_Name	VARCHAR2 (20)	Composite , Not Null
Employee_Phone_No	INT	Multi valued
Employee_Type	VARCHAR2 (20)	Not Null
Employee_Scale	Char	Not Null
Employee_Title	VARCHAR2 (20)	Not Null

## 3) Order

Attribute	Data Type	Constraints and Characteristics
Order_ID	VARCHAR2 (20)	Primary Key
Staff_ID	VARCHAR2 (20)	Foreign key, Not Null
Customer_ID	VARCHAR2 (20)	Foreign Key, Not Null
Order_Details_ID	VARCHAR2 (20)	Foreign key, Not Null

## 4) Order Details

Attribute	Data Type	Constraints and Characteristics
Order_Details_ID	VARCHAR2 (20)	Primary Key
Order_Date	DATE	Not Null
Order_Bill_No	INT	Not Null
Order_Discount	INT	-
Order_Quantity	INT	Not Null
Product_ID	VARCHAR2 (20)	Foreign Key, Not Null

## 5) Order Relationship

Attribute	Data Type	Constraints and Characteristics
Customer_ID	VARCHAR2 (20)	Foreign Key
Order_ID	VARCHAR2 (20)	Foreign Key

## 6) Payment

Attribute	Data Type	Constraints and Characteristics
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Payment_Bill_No	INT	Primary Key
Payment_Type	VARCHAR2(20)	Not Null
Payment_Due_Date	DATE	Not Null
Payment_Date	DATE	Not Null
Payment_Amount	INT	Not Null
Order_Details_ID	VARCHAR2 (20)	Foreign Key, Not Null

#### 7) **Supplier**

Attribute	Data Type	Constraints and Characteristics
Supplier_ID	VARCHAR2 (20)	Primary Key
Supplier_Name	VARCHAR2 (20)	Composite, Not Null
Supplier_Phone_No	INT	Multi valued
Supplier_Discount	INT	-
Supplier_Pay_Method	VARCHAR2 (20)	Not Null
Product_ID	VARCHAR2 (20)	Foreign Key, Not Null
Supplier_Total_Product	INT	Not Null

#### 8) **Product**

Attribute	Data type	Constraints and Characteristics
Product_ID	VARCHAR2 (20)	Primary Key
Product_Name	VARCHAR2(20)	Not Null
In_Stock	VARCHAR2(20)	Not Null
Product_Price	INT	Not Null
Product_Description	VARCHAR2 (20)	Not Null
Supplier_ID	VARCHAR2 (20)	Foreign key, Not Null
Category_ID	VARCHAR2 (20)	Foreign Key, Not Null
Order_Details_ID	VARCHAR2 (20)	Foreign key, Not Null

#### 9) **Category**

Attribute	Data Type	Constraints and Characteristics
Category_ID	VARCHAR2 (20)	Primary Key
Category_Name	VARCHAR2(20)	Not Null
Category_Description	VARCHAR2(20)	Not Null

#### 10) **Supplier\_Phone\_No**

Attribute	Data Type	Constraints and Characteristics
Supplier_ID	VARCHAR2 (20)	Primary Key
Phone_no	INT	Not Null

#### 11) Employee\_Phone\_No

Attribute	Data Type	Constraints and Characteristics
Employee_ID	VARCHAR2 (20)	Primary Key
Phone_no	INT	Not Null

#### 12) Customer\_Phone\_No

Attribute	Data Type	Constraints and Characteristics
Customer_ID	VARCHAR2 (20)	Primary Key
Phone_no	INT	Not Null

#### 13) Supplies

Attribute	Data Type	Constraints and Characteristics
S_ID	VARCHAR2 (20)	Primary Key, Foreign Key
P_ID	VARCHAR2 (20)	Foreign Key

#### 14) Contains

Attribute	Data Type	Constraints and Characteristics
Product_ID	VARCHAR2 (20)	Foreign Key
Oder_details_ID	VARCHAR2 (20)	Foreign Key

### **ER-MODEL ASSUMPTIONS**

- A supplier can store any number of different products. The products are not unique to the supplier and any product can have more than one supplier.
- Each and every of these products must belong to one category only. However, each category can have any quantity of products.
- Each customer who visits the system must be accompanied by a facility employee. An employee can only issue product orders. The employee can serve any number of customers at any given time.

- Each employee can issue any number of customer's product orders. Each of these orders are unique and must be traced back to unique issuing employee.
- A customer is free to place any number of different orders into the system. Each order details must correspond to each customer.
- Each order has order details specific to it. The same order details can have more than one product.
- Each payment receipt will correspond to one set of order details. Similarly, each set of order details can produce one payment receipt.
- Each order details may contain any number of products, as per the demand. Similarly, any product can be present in any number of order details.

## **FUNCTIONAL DEPENDENCIES AND PRIMARY KEY**

- **Customer**

Customer\_ID  $\rightarrow$  {Customer\_Name, Customer\_Email, Staff\_ID, Order\_ID} Since all the fields depend on Customer\_ID, (Customer\_ID)  $\rightarrow$  R.

Hence, Customer\_ID is Primary Key.

- **Employee**

Employee\_ID  $\rightarrow$  {Employee\_Name, Employee\_Type, Employee\_Scale, Employee\_Title} Since all the fields depend on Employee\_ID, (Employee\_ID)  $\rightarrow$  R.

Hence, Employee\_ID is Primary Key.

- **Order**

Order\_ID -> {Staff\_ID,Customer\_ID,Order\_Details\_ID} Since

all the fields depend on Order\_ID, (Order\_ID)+ -> R.

Hence, Order\_ID is Primary Key.

- **Order Details**

Order\_Details\_ID ->

{Order\_Date,COrder\_Bill\_No,Order\_Discount,Order\_Quantity,Product\_ID} Since

all the fields depend on Order\_Details\_ID, (Order\_Details\_ID)+ -> R.

Hence, Order\_Details\_ID is Primary Key.

- **Payment**

Payment\_Bill\_No->

{Payment\_Type,Payment\_Due\_Date,Payment\_Date,Payemnt\_Amount,Order\_Details\_ID}

Since all the fields depend on Payment\_Bill\_No, (Payment\_Bill\_No)+ -> R.

Hence, Payment\_Bill\_No is Primary Key.

- **Supplier**

Supplier\_ID ->

{Supplier\_Name,Supplier\_Discount,Supplier\_Pay\_Method,Product\_ID,Supplier\_Total\_Product}

Since all the fields depend on Supplier\_ID, (Supplier\_ID)+ -> R.

Hence, Supplier\_ID is Primary Key.

- **Product**



Product\_ID ->

{Product\_Name, In\_Stocks, Product\_Price, Product\_Description, Supplier\_ID, Category\_ID, Order\_Details\_ID}

Since all the fields depend on Product\_ID, (Product\_ID)+ -> R.

Hence, Product\_ID is Primary Key.

- **Category**

Category\_ID -> {Customer\_Name, Customer\_Description} Since

all the fields depend on Category\_ID, (Category\_ID)+ -> R.

Hence, Category\_ID is Primary Key.

- Supplier\_Phone\_No

Supplier\_ID -> {Supplier\_Phone\_no}

Since Supplier\_Phone\_No depend on the Supplier\_ID, (Supplier\_ID)+ -> R.

Hence, Supplier\_ID is Primary Key.

- Employee\_Phone\_No

Employee\_ID -> {Employee\_Phone\_no}

Since Employee\_Phone\_No depend on the Employee\_ID, (Employee\_ID)+ -> R.

Hence, Employee\_ID is Primary Key.

- Customer\_Phone\_No

Customer\_ID -> {Customer\_Phone\_no}

Since Customer\_Phone\_No depend on the Customer\_ID, (Customer\_ID)+ -> R.

Hence, Customer\_ID is Primary Key.

- Supplies

S\_ID -> {P-ID}

Since all the fields depend on S\_ID, (S\_ID)+ -> R.

Hence, S\_ID is Primary Key.

## **NORMALISATION**

- **Customer**

Primary key: Customer\_ID

Attribute Phone\_nois Multivalued hence has another table of its own so the table is in 1NF.

All attributes depend on the Customer\_ID, hence the table is 2NF.

All attributes depend directly on Customer\_ID, hence the table is in 3NF.

All determinants (Customer\_ID) are candidate keys, hence the table is in BCNF.

- **Employee**

Primary key: Employee\_ID

Attribute Phone\_nois Multivalued hence has another table of its own so the table is in 1NF.

All attributes depend on the Employee\_ID, hence the table is 2NF.

All attributes depend directly on Employee\_ID, hence the table is in 3NF.

All determinants (Employee\_ID) are candidate keys, hence the table is in BCNF.

- **Order**

Primary key: Order\_ID

All attributes depend on the Order\_ID, hence the table is 2NF.

All attributes depend directly on Order\_ID, hence the table is in 3NF.

All determinants (Order \_ID) are candidate keys, hence the table is in BCNF.

- **Order Details**

Primary key: Order\_Details \_ID

All attributes depend on the Customer\_ID, hence the table is 2NF.

All attributes depend directly on Customer\_ID, hence the table is in 3NF.

All determinants (Customer\_ID) are candidate keys, hence the table is in BCNF.

- **Payment**

Primary key: Payment\_Bill\_No

All attributes depend on the Payment\_Bill\_No, hence the table is 2NF.

All attributes depend directly on Payment\_Bill\_No, hence the table is in 3NF.

All determinants (Payment\_Bill\_No) are candidate keys, hence the table is in BCNF.

- **Supplier**

Primary key: Supplier\_ID

Attribute Phone\_nois Multivalued hence has another table of its own so the table is in 1NF.

All attributes depend on the Supplier\_ID, hence the table is 2NF.

All attributes depend directly on Supplier\_ID, hence the table is in 3NF.

All determinants (Supplier\_ID) are candidate keys, hence the table is in BCNF.

- **Product**

Primary key: Product\_ID

All attributes depend on the Product\_ID, hence the table is 2NF.

All attributes depend directly on Product\_ID, hence the table is in 3NF.

All determinants (Product\_ID) are candidate keys, hence the table is in BCNF.

- **Category**

Primary key: Category\_ID

All attributes depend on the Category\_ID , hence the table is 2NF.

All attributes depend directly on Category\_ID , hence the table is in 3NF.

All determinants (Category\_ID) are candidate keys, hence the table is in BCNF.

- **Employee\_Phone\_no**

All attributes depend on the Employee\_ID , hence the table is 2NF.

All attributes depend directly on Employee\_ID , hence the table is in 3NF.

All determinants (Employee\_ID) are candidate keys, hence the table is in BCNF.

- **Customer\_Phone\_no**

All attributes depend on the Customer \_ID , hence the table is 2NF.

All attributes depend directly on Customer \_ID , hence the table is in 3NF.

All determinants (Customer \_ID) are candidate keys, hence the table is in BCNF.

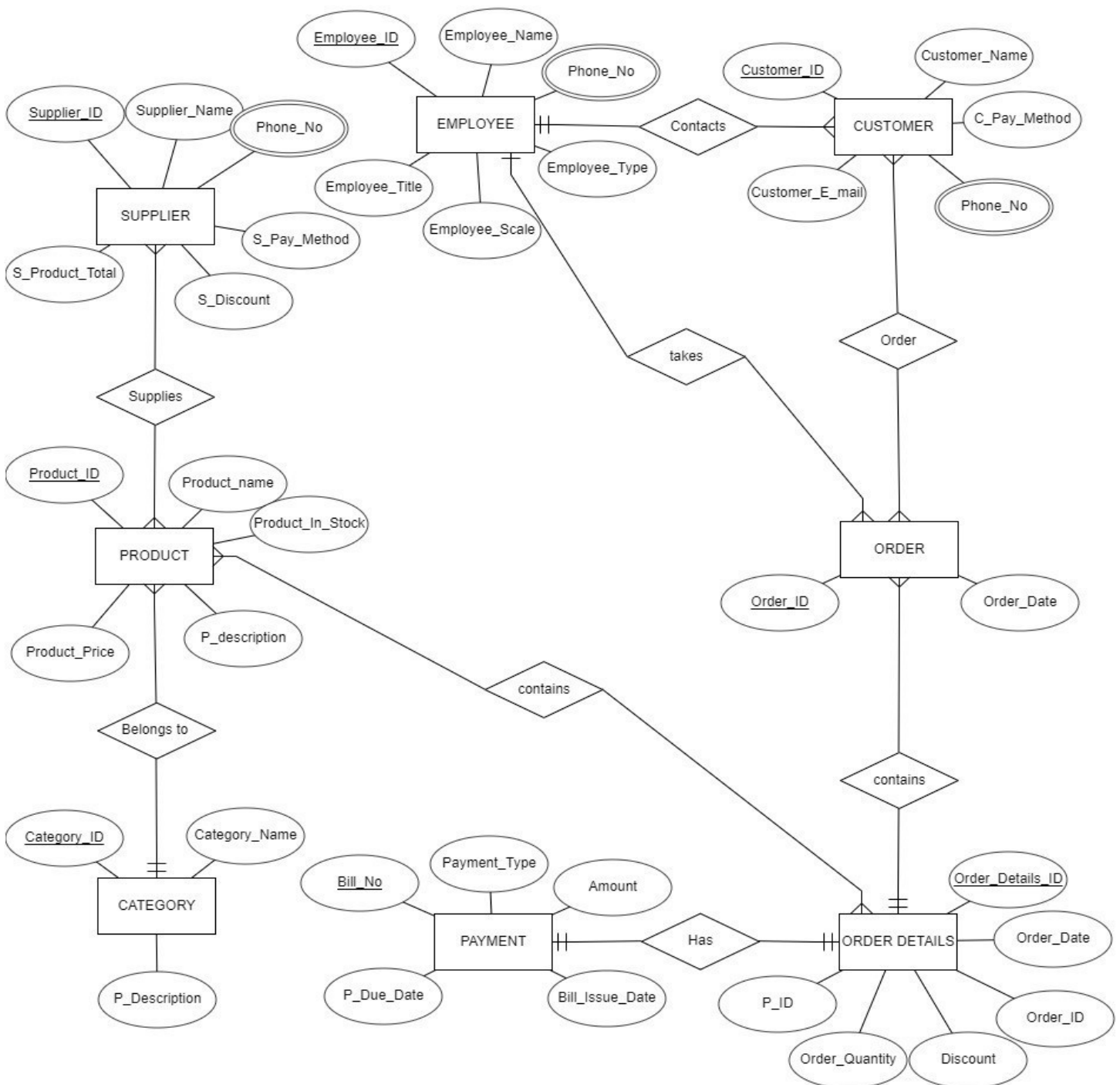
- **Supplier\_Phone\_no**

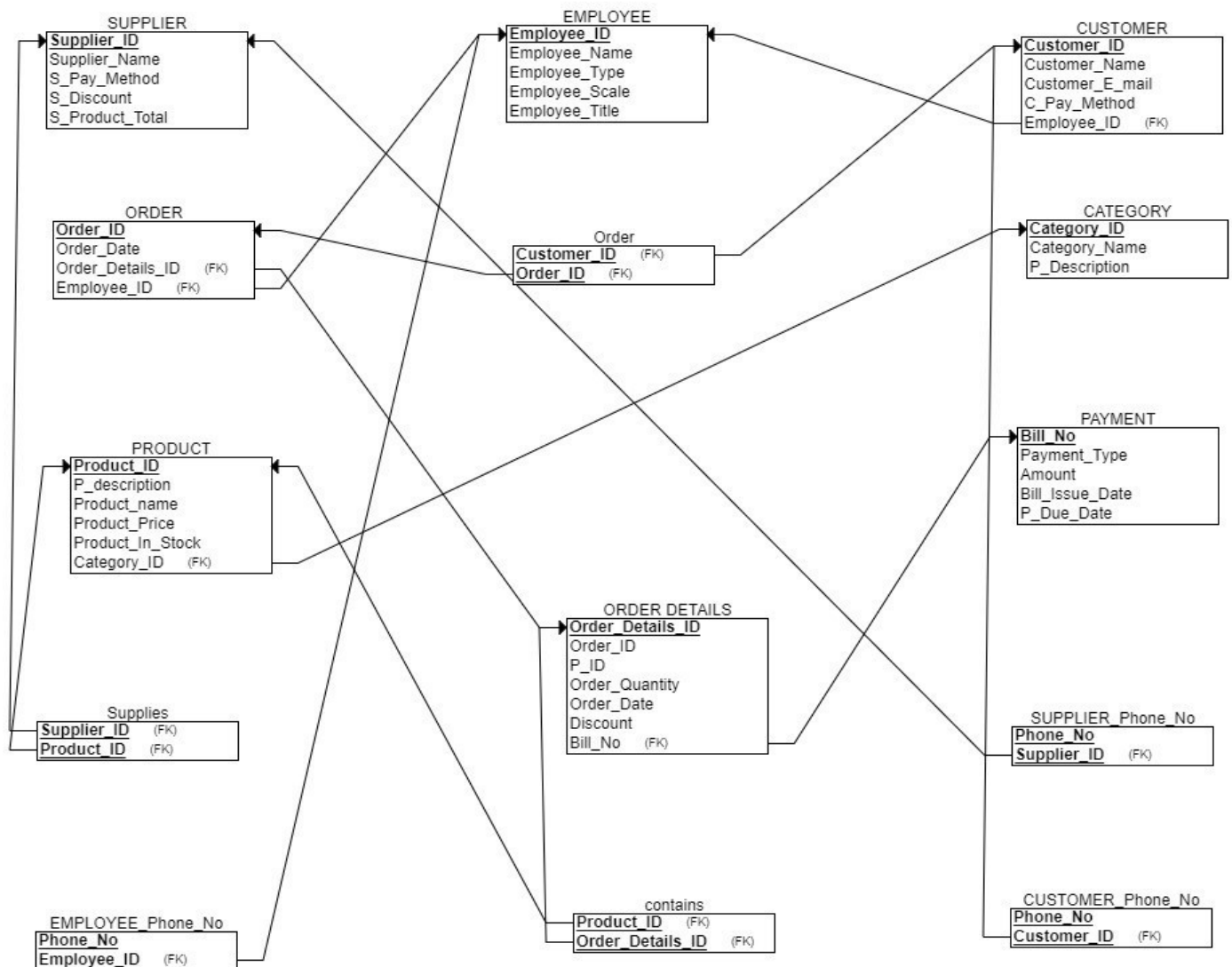
All attributes depend on the Supplier \_ID , hence the table is 2NF.

All attributes depend directly on Supplier \_ID , hence the table is in 3NF.

All determinants (Supplier \_ID) are candidate keys, hence the table is in BCNF.

## 14





Product\_Name VARCHAR (20) NOT NULL,  
In\_Stock VARCHAR (20) NOT NULL, Product\_Price INT NOT NULL,  
Product\_Description VARCHAR (20) NOT NULL,  
Supplier\_ID VARCHAR (20) NOT NULL,  
Category\_ID VARCHAR (20) NOT NULL,  
Order\_Details\_ID VARCHAR (20) NOT NULL,  
FOREIGN KEY (Category\_ID) REFERENCES CATEGORY(Category\_ID)  
);

CREATE TABLE ORDER\_DETAILS

(  
Order\_Details\_ID VARCHAR (20) PRIMARY KEY,  
Order\_Date DATE NOT NULL,  
Order\_Bill\_No INT NOT NULL,  
Order\_Discount INT,  
Order\_Quantity INT,  
Product\_ID VARCHAR (20) NOT NULL,  
FOREIGN KEY (Product\_ID) REFERENCES PRODUCT (Product\_ID)  
);

CREATE TABLE PAYMENT

(  
Payment\_Bill\_No INT PRIMARY KEY,



```
Payment_Type VARCHAR (20) NOT NULL,  
Payment_Due_Date DATE NOT NULL,  
Bill_Issue_Date DATE NOT NULL,  
Payment_Amount INT NOT NULL,  
Order_Details_ID VARCHAR (20) NOT NULL,  
    FOREIGN KEY (Order_Details_ID) REFERENCES ORDER_DETAILS  
    (Order_Details_ID)  
);
```

```
CREATE TABLE SUPPLIER
```

```
(  
Supplier_ID VARCHAR (20) PRIMARY KEY,  
    Supplier_Name VARCHAR (20) NOT NULL,  
Supplier_Discount INT,  
Supplier_Pay_Method VARCHAR (20) NOT NULL,  
Product_ID VARCHAR (20) NOT NULL,  
Supplier_Total INT,  
    FOREIGN KEY (Product_ID) REFERENCES PRODUCT(Product_ID)  
);
```

```
CREATE TABLE CUSTOMER
```

```
(  
Customer_ID VARCHAR (20) PRIMARY KEY,
```

```
Customer _Name VARCHAR (20) NOT NULL,  
Customer _Email VARCHAR (20),  
Staff _ID VARCHAR (20) NOT NULL,  
Order _ID VARCHAR (20) NOT NULL,  
    FOREIGN KEY (Staff _ID) REFERENCES EMPLOYEE(Employee _ID)  
);
```

```
CREATE TABLE ORDER_  
(  
    Order _ID VARCHAR (20) PRIMARY KEY,  
    Staff _ID VARCHAR (20) NOT NULL,  
    Customer _ID VARCHAR (20) NOT NULL,  
    Order _Details _ID VARCHAR (20) NOT NULL,  
    FOREIGN KEY (Staff _ID) REFERENCES EMPLOYEE (Employee _ID),  
    FOREIGN KEY (Customer _ID) REFERENCES  
    CUSTOMER(CUSTOMER _ID)  
);
```

```
CREATE TABLE CUSTOMER_PHONE_NO  
(  
    Phone_no INT NOT NULL,  
    Customer _ID VARCHAR (20) PRIMARY KEY,
```

```
        FOREIGN KEY (Customer_ID) REFERENCES  
CUSTOMER(CUSTOMER_ID)
```

```
);
```

```
CREATE TABLE EMPLOYEE_PHONE_NO
```

```
(
```

```
    Phone_no INT NOT NULL,
```

```
    Employee_ID VARCHAR (20) PRIMARY KEY,
```

```
        FOREIGN KEY (Employee_ID) REFERENCES  
EMPLOYEE(EMPLOYEE_ID)
```

```
);
```

```
CREATE TABLE SUPPLIER_PHONE_NO
```

```
(
```

```
    Phone_no INT NOT NULL,
```

```
    Supplier_ID VARCHAR (20) PRIMARY KEY,
```

```
        FOREIGN KEY (Supplier_ID) REFERENCES SUPPLIER(SUPPLIER_ID)
```

```
);
```

```
CREATE TABLE CONTAINS
```

```
(
```

```
    Order_Details_ID VARCHAR (20) NOT NULL,
```

```
    Product_ID VARCHAR (20) NOT NULL,
```

```
        FOREIGN KEY (Order_Details_ID) REFERENCES  
PRODUCT(Order_Details_ID)
```

```
        FOREIGN KEY (Customer_ID) REFERENCES  
CUSTOMER(CUSTOMER_ID)
```

);

INSERT INTO SUPPLIER VALUES ('1001A','Ederson Moraes', 'Credit Card',' 1 %', 200000);

INSERT INTO SUPPLIER VALUES ('002B','Kyle Walker', 'Electronic Wallet',' 3 %', 250000);

INSERT INTO SUPPLIER VALUES ('003C','Ruben Dias', 'Credit Card','5 %', 200000);

INSERT INTO SUPPLIER VALUES ('004D','Vincent Kompany','Bank Transfer',' 6 %', 195000);

INSERT INTO SUPPLIER VALUES ('005A','John Stones', 'Credit Card',' 4 %', 80000);

INSERT INTO SUPPLIER VALUES ('006B','Nathan Ake', 'Credit Card',' 10 %', 90000);

INSERT INTO SUPPLIER VALUES ('017C','Kevin De Bruyne', 'Electronic Wallet',' 15 %', 300000);

INSERT INTO SUPPLIER VALUES ('009D','Mike Hunt', 'Bank Transfer',' 2 %', 50000);

INSERT INTO SUPPLIER VALUES ('010A','Sergio Aguero', 'Bank Transfer',' 10%', 195000);

INSERT INTO SUPPLIER VALUES ('011C','Dixie Normous', 'Credit Card',' 8 %', 455800);

INSERT INTO EMPLOYEE VALUES ('E001','Kiran Limbu', 'Full Time',10, 'Customer Service');

INSERT INTO EMPLOYEE VALUES ('E002','Rohit Chand', 'Part Time',10, 'Warehouse Manager');

INSERT INTO EMPLOYEE VALUES ('E003','Anjan Bista', 'Full Time',10, 'Sales Manager');

INSERT INTO EMPLOYEE VALUES ('E004','Sunil Bal', 'Casual',9, 'Warehouse Assistant');

INSERT INTO EMPLOYEE VALUES ('E005','Bimal Gharti ', 'Full',9, 'Customer Service');

INSERT INTO EMPLOYEE VALUES ('E006','Biraj Maharjan', 'Full Time',10, 'Accountant');

INSERT INTO EMPLOYEE VALUES ('E007','Bharat Khawas', 'Casual',10, 'Warehouse Assistant');

INSERT INTO EMPLOYEE VALUES ('E008','Ram Shrestha', 'Part Time',9, 'Customer Service');

INSERT INTO EMPLOYEE VALUES ('E009','Abhisheko Rijal', 'Full Time',9, 'Customer Service');

INSERT INTO EMPLOYEE VALUES ('E010','Bikesh Kutthu', 'Full Time',10, 'Customer Service');

INSERT INTO CUSTOMER VALUES ('C001',' Hero Hiralal', 'Electronic Wallet', 'hiralal@gmail.com', 'E005');

INSERT INTO CUSTOMER VALUES ('C002',' UdayShetty', 'Bank Transfer', 'shettyuday@gmail.com', 'E009');

INSERT INTO CUSTOMER VALUES ('C003',' MajnuShetty', 'Phone Wallet', 'shettymaj@gmail.com', 'E010');

INSERT INTO CUSTOMER VALUES ('C004',' Ghunghroo Seth', 'Credit card', 'hamro@gmail.com', 'E008');

INSERT INTO CUSTOMER VALUES ('C005',' Lucky Khan', 'Credit Card', 'mero@gmail.com', 'E005');

INSERT INTO CUSTOMER VALUES ('C006',' Rajesh Hamal', 'Electronic Wallet',  
'tero@gmail.com', 'E008');

INSERT INTO CUSTOMER VALUES ('C007',' AkshayKhanna', 'Electronic  
Wallet', 'tyesko@gmail.com', 'E005');

INSERT INTO CUSTOMER VALUES ('C008',' BaburaoApte', 'Bank Transfer',  
'esko@gmail.com', 'E010');

INSERT INTO CUSTOMER VALUES ('C009',' ShyamKafle', 'Credit card',  
'tapaiko@gmail.com', 'E009');

INSERT INTO CUSTOMER VALUES ('C010',' Kachra Seth', 'Credit Card',  
'kosaiko@gmail.com', 'E008');

INSERT INTO PRODUCT VALUES ('P01','beverage','Pepsi',70, 300, '002F');

INSERT INTO PRODUCT VALUES ('P02','beverage','Rasna',50, 275, '002F');

INSERT INTO PRODUCT VALUES ('P03','beverage','Coke',65, 300, '002F');

INSERT INTO PRODUCT VALUES ('P04','beverage','Mirinda',65, 250, '002F');

INSERT INTO PRODUCT VALUES ('P05','stationary','GlueStick',20, 400,  
'007A');

INSERT INTO PRODUCT VALUES ('P06','stationary','Stapler',100, 100, '007A');

INSERT INTO PRODUCT VALUES ('P07','stationary','Box',250, 150, '007A');

INSERT INTO PRODUCT VALUES ('P08','Cosmetics','deodrant',400, 100,  
'004A');

INSERT INTO PRODUCT VALUES ('P09','Cosmetics','hairbrush',250, 50,  
'004A');

INSERT INTO PRODUCT VALUES ('P10','Cosmetics','Nailclipper',100, 50,  
'004A');

```
INSERT INTO PRODUCT VALUES ('P11', 'Electronics','Mixergrinder',3000, 25,  
'005A');
```

```
INSERT INTO PRODUCT VALUES ('P12', 'Electronics','Speaker',2500, 40,  
'005A');
```

```
INSERT INTO ORDER_ ('OR01','2021-01-06','D010','E007');
```

```
INSERT INTO ORDER_ ('OR02','2021-03-07','D005','E005');
```

```
INSERT INTO ORDER_ ('OR03','2021-05-10','D001','E009');
```

```
INSERT INTO ORDER_ ('OR04','2021-05-13','D004','E010');
```

```
INSERT INTO ORDER_ ('OR05','2021-03-26','D003','E006');
```

```
INSERT INTO ORDER_ ('OR06','2021-01-08','D005','E007');
```

```
INSERT INTO ORDER_ ('OR07','2021-04-01','D006','E009');
```

```
INSERT INTO ORDER_ ('OR08','2021-02-12','D005','E008');
```

```
INSERT INTO ORDER_ ('OR09','2021-02-06','D007','E010');
```

```
INSERT INTO ORDER_ ('OR10','2021-03-05','D004','E007');
```

```
INSERT INTO ORDER_DETAILS VALUES ('D001','P02', 30, '2021-02-03','2 %',  
1010);
```

```
INSERT INTO ORDER_DETAILS VALUES ('D002','P03', 40, '2021-04-03','3 %',  
1003);
```

INSERT INTO ORDER\_DETAILS VALUES ('D003','P04', 100, '2021-05-05','5 %', 1002);

INSERT INTO ORDER\_DETAILS VALUES ('D004','P10', 50, '2021-06-12','10%', 1004);

INSERT INTO ORDER\_DETAILS VALUES ('D005','P12', 70, '2021-07-14','4 %', 1005);

INSERT INTO ORDER\_DETAILS VALUES ('D006','P07', 34, '2021-09-06','3 %', 1006);

INSERT INTO ORDER\_DETAILS VALUES ('D007','P08', 19, '2021-08-29','6 %', 1007);

INSERT INTO ORDER\_DETAILS VALUES ('D008','P09', 40, '2021-10-05','1 %', 1008);

INSERT INTO ORDER\_DETAILS VALUES ('D009','P11', 55, '2021-11-03','2 %', 1009);

INSERT INTO PAYMENT VALUES (1001,' Bank Transfer', 150000, '2021-02-03', '2021-02-05');

INSERT INTO PAYMENT VALUES (1002,' Electronic Wallet', 230000, '2021-02-04', '2021-04-05');

INSERT INTO PAYMENT VALUES (1003,' Credit Card', 15000, '2021-02-05', '2021-04-05');

INSERT INTO PAYMENT VALUES (1004,' Bank Transfer', 23888, '2021-02-06', '2021-04-05');

INSERT INTO PAYMENT VALUES (1005,' Electronic Wallet', 230000, '2021-02-07', '2021-04-05');



INSERT INTO PAYMENT\_VALUES (1006,' Bank Transfer', 100000, '2021-0208',  
'2021-04-05');

INSERT INTO PAYMENT\_VALUES (1007,' Credit Card', 18776, '2021-02-09',  
'2021-05-05');

INSERT INTO PAYMENT\_VALUES (1008,' Bank Transfer', 25000, '2021-02-10',  
'2021-06-05');

INSERT INTO PAYMENT\_VALUES (1009,' Electronic Wallet', 10000, '2021-  
0211', '2021-03-05');

INSERT INTO PAYMENT\_VALUES (1010,' Credit Card', 15000, '2021-02-12',  
'2021-04-05');

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('1001A',009779860276223);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('002B',00917386925833);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('002B',00917335945845);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('003C',009779851091932);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('004D',497879208984);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('005A',413144312141);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('006B',41341243422);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('017C',0123124981293);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('009D',87288992892);

INSERT INTO SUPPLIER\_PHONE\_NO\_VALUES ('011C',00917782827234);

INSERT INTO EMPLOYEE\_PHONE\_NO\_VALUES ('E001' ,781267881982);

INSERT INTO EMPLOYEE\_PHONE\_NO\_VALUES ('E001' ,67156728222);

INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E002' ,82762788389);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E003' ,9727882323);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E004' ,8825677822);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E005' ,2313525453);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E006' ,356425235235);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E007' ,5231354254534);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E008' ,8738839933);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E009' ,  
8912734891274901);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E009' ,981249124);  
INSERT INTO EMPLOYEE\_PHONE\_NO VALUES ('E010' ,2431413531);

INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C001' ,00917386925833);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C002' ,87923491274012);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C003' ,87124981273908);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C004' ,  
783498149128414);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C005' ,  
982739812371280);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C006' ,  
981278912323321);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C007' ,8912738912723);  
INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C008' ,98123091283210);

INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C009' ,  
981273012312312);

INSERT INTO CUSTOMER\_PHONE\_NO VALUES ('C010' ,  
900283091223121);

### SOME TABLES FROM WORKING DATABASE

EMPLOYEE_ID	EMPLOYEE_NAME	EMPLOYEE_TYPE	EMPLOYEE_SCALE	EMPLOYEE_TITLE
1 E001	Kiran Limbu	Full Time	10	Customer Service
2 E002	Rohit Chand	Part Time	10	Warehouse Manager
3 E003	Anjan Bista	Full Time	10	Sales Manager
4 E004	Sunil Bal	Casual	9	Warehouse Assistant
5 E005	Bimal Gharti	Full	9	Customer Service
6 E006	Biraj Maharjan	Full Time	10	Accountant
7 E007	Bharat Khawas	Casual	10	Warehouse Assistant
8 E008	Ram Shrestha	Part Time	9	Customer Service
9 E009	Abhisheko Rijal	Full Time	9	Customer Service
10 E010	Bikesh Kutthu	Full Time	10	Customer Service

CATEGORY_ID	CATEGORY_NAME	CATEGORY_DESCRIPTION
1 001A	Motor Repair Parts	Car Repair
2 002F	Cosmetible	Beverage
3 003F	Cosmetible	Food
4 003G	Grooming Accessory	Groomers
5 004A	Cosmetic Acessory	Cosmetics
6 007A	Office Accessory	desk items
7 008A	Sanitation Accessory	House Sanitation

	PHONE_NO	EMPLOYEE_ID
1	78126782	E001
2	82762788389	E002
3	9727882323	E003
4	8825677822	E004
5	2313525453	E005
6	356425235235	E006
7	5231354254534	E007
8	8738839933	E008
9	8912734891274901	E009

**\*\*THE END\*\***