Group1:

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Description of all the tables:  
  
Category table:

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Description automatically generated

This table Categorizes products into different types.

Category\_Id: Primary key, unique identifier for each product category.

Category\_Type: Stores the type of product category (e.g., Smartphone, Tablet, Feature Phone, Accessory).

Category\_Quantity: Stores the quantity of products available in the category.

Category\_Price: Stores the base price for products in the category.

Inserting in the Category Table:

A screenshot of a computer

Description automatically generated

Supplier Table:  
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Description automatically generated

It stores information about suppliers providing products to the company.SmartPhones

Supplier\_Id: Primary key, unique identifier for each supplier.

Supplier\_Name: Stores the name of the supplier.

Supplier\_Contract\_Date: Stores the date of the contract between the company and the supplier.

Inserting in the table Supplier:

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Description automatically generated

Smartphone Tablet:

It stores information about different smartphone models. The description of attributes is as follows:

SPhone\_Id: Primary key, unique identifier for each smartphone.

Supplier\_Id: Foreign key referencing the Supplier table, identifies the supplier of the smartphone.

Category\_Id: Foreign key referencing the Category table, identifies the category of the smartphone.

SPhone\_Name: Stores the name of the smartphone.

SPhone\_Type: Stores the type of smartphone.

SPhone\_Color: Stores the color of the smartphone.

SPhone\_Brand: Stores the brand of the smartphone.

SPhone\_Model: Stores the model of the smartphone.

SPhone\_Price: Stores the price of the smartphone.

SPhone\_Discount: Stores the discount applied to the smartphone.

Inserting in the table Smartphone:

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Description automatically generated

Tablets Table:  
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Description automatically generated

It stores information about different tablet models. The description of attributes as follows:

Tablets\_Id: Primary key, unique identifier for each tablet.

Category\_Id: Foreign key referencing the Category table, identifies the category of the tablet.

Supplier\_Id: Foreign key referencing the Supplier table, identifies the supplier of the tablet.

Tablets\_Name: Stores the name of the tablet.

Tablets\_Type: Stores the type of tablet.

Tablets\_Color: Stores the color of the tablet.

Tablets\_Brand: Stores the brand of the tablet.

Tablets\_Model: Stores the model of the tablet.

Tablets\_Price: Stores the price of the tablet.

Tablets\_Discount: Stores the discount applied to the tablet.

Inserting in the table Tablets:

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Description automatically generated

Feature-Phone Table:  
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Description automatically generated

It stores information about different feature phone models. The description of attributes as follows:

Fphone\_Id: Primary key, unique identifier for each feature phone.

Supplier\_Id: Foreign key referencing the Supplier table, identifies the supplier of the feature phone.

Category\_Id: Foreign key referencing the Category table, identifies the category of the feature phone.

Fphone\_Name: Stores the name of the feature phone.

Fphone\_Type: Stores the type of feature phone

Fphone\_Color: Stores the color of the feature phone.

Fphone\_Brand: Stores the brand of the feature phone.

Fphone\_Model: Stores the model of the feature phone.

Fphone\_Price: Stores the price of the feature phone.

Fphone\_Discount: Stores the discount applied to the feature phone.

Inserting in the table Feature-Phone:

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Description automatically generated

Accessory Table:

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Description automatically generated  
It stores information about different accessories. The description of attributes as follows:

Accessory\_Id: Primary key, unique identifier for each accessory.

Supplier\_Id: Foreign key referencing the Supplier table, identifies the supplier of the accessory.

Category\_Id: Foreign key referencing the Category table, identifies the category of the accessory.

Accessory\_Name: Stores the name of the accessory.

Accessory\_Type: Stores the type of accessory.

Accessory\_Color: Stores the color of the accessory.

Accessory\_Brand: Stores the brand of the accessory.

Accessory\_Model: Stores the model of the accessory.

Accessory\_Price: Stores the price of the accessory.

Accessory\_Discount: Stores the discount applied to the accessory.

Inserting in Table:

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Employee Table:

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Description automatically generated

It stores information about employees working in the company.

Employee\_ID: Primary key, unique identifier for each employee.

Employee\_Name: Stores the name of the employee.

Employee\_Designation: Stores the designation or role of the employee.

Employee\_Email: Stores the email address of the employee.

Employee\_Address: Stores the address of the employee.

Employee\_Contact: Stores the contact number of the employee.

Inserting in the Employee Table:  
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Description automatically generated

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Customer Table  
A screenshot of a computer code

Description automatically generated

It stores information about customers of the company.

Customer\_ID: Primary key, unique identifier for each customer.

Customer\_Name: Stores the name of the customer.

Customer\_Address: Stores the address of the customer.

Customer\_Email: Stores the email address of the customer.

Customer\_Offer: Stores any offer or discount applicable to the customer.

Inserting in the table Customer:  
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Cart Table:  
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Description automatically generated

This table represents the shopping cart with items selected by customers.

Cart\_ID: Primary key, unique identifier for each cart entry.

Customer\_ID: Foreign key referencing the Customer table, identifies the customer associated with the cart.

Category\_Id: Foreign key referencing the Category table, identifies the category of the item in the cart.

Item\_ID: Foreign key referencing the specific item table (SmartPhones, Tablets, FeaturePhones, Accessory), identifies the item in the cart.

Cart\_Quantity: Stores the quantity of the item in the cart.

Cart\_Date: Stores the date when the item was added to the cart.

Cart\_Price: Stores the total price of the items in the cart.

Inserting in the Cart Table:  
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Description automatically generated

Payment Table:  
A computer screen shot of a computer

Description automatically generated

This presents payment details for completed and pending transactions.

Payment\_Ref\_Number: Primary key, unique identifier for each payment.

Customer\_ID: Foreign key referencing the Customer table, identifies the customer making the payment.

Payment\_Card\_Type: Stores the type of payment card used.

Payment\_Date: Stores the date of the payment.

Payment\_Time: Stores the timestamp of the payment.

Card\_Number: Stores the card number used for payment.

Payment\_Total: Stores the total amount paid.

Payment\_Status: Stores the status of the payment (Complete, Incomplete, etc.).

Cart\_ID: Foreign key referencing the Cart table, identifies the cart associated with the payment.

Inserting in the table Payment:  
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Description automatically generated

Shipping Table:  
  
A close-up of a sign

Description automatically generated

This table represents the shipping details for completed and pending shipments.

Payment\_Ref\_Number: Foreign key referencing the Payment table, identifies the payment associated with shipping.

Shipping\_Status: Stores the status of shipping (Complete, Incomplete, etc.).

Shipping\_Date: Stores the date of shipping.

Shipping\_Date\_Remaining: Stores the number of days remaining for shipping.

Inserting in the Table shipping:  
A screenshot of a computer

Description automatically generated

Sales Table:

A close-up of a computer screen

Description automatically generated

Sales\_ID: Primary key, unique identifier for each sales entry.

Payment\_Ref\_Number: Foreign key referencing the Payment table, identifies the payment associated with

Inserting entities in the table sales:  
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Use Cases:

1) Use Case 1: Retrieve Customer and their Purchased Items

In this use case, we can retrieve a list of customers and the items they have purchased along with the payment details.

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Description automatically generated A screen shot of a phone

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2) Use Case 2: Get Employee Contact Information

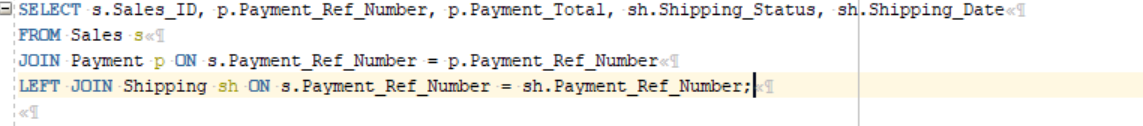
In this use case, we can retrieve the contact information of all employees.

  
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3) Use Case 3: Retrieve Sales and Shipping Details

For this use case, we can retrieve sales information along with their corresponding shipping status and dates.

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4) Use Case 4: Displaying Information about Smartphones and Their Suppliers

To retrieve information about smartphones along with the corresponding supplier details.

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A screenshot of a phone number

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