

```

graph LR
    Admin[Admin] -- "Product Information" --> Cybervare[Cybervare]
    Admin -- "Order Processing Information" --> Cybervare
    Admin -- "Customer account management information" --> Cybervare
    Cybervare -- "Reports" --> Admin
    Customers[Customers] -- "Create Account" --> Cybervare
    Customers -- "Login" --> Cybervare
    Customers -- "Order Information" --> Cybervare
    Customers -- "browsing and searching information" --> Cybervare
    Cybervare -- "Comments and Reviews" --> Customers
    Cybervare -- "Customer Inquiries and Feedback" --> Admin
    Cybervare -- "Order Details" --> Admin
    Cybervare -- "Product Information" --> Customers
    Cybervare -- "Order status updates" --> Customers
  
```

```

graph TD
    Admin[ADMIN]
    Customers[CUSTOMERS]
    Database[(DATABASE)]

    subgraph Modules
        R1[1.0 Register]
        S2[2.0 Sign in]
        B3[3.0 Browse/View Products]
        C4[4.0 Cart]
        O5[5.0 Orders]
        S6[6.0 Shipping]
        CH7[7.0 Checkout]
        P8[8.0 Payment]
        F9[9.0 Feedbacks]
        GR10[10.0 Generate Reports]
    end

    Admin -- "creates a new account." --> R1
    Admin -- "signs in to their existing account" --> S2
    Admin -- "searches for or views product information" --> B3
    Admin -- "Select product" --> C4
    Admin -- "Shipping cart information" --> C4
    Admin -- "Order details" --> O5
    Admin -- "add comment/review" --> O5
    Admin -- "Fill up Address" --> S6
    Admin -- "shipping details" --> S6
    Admin -- "Selected products" --> CH7
    Admin -- "show total price" --> P8
    Admin -- "select mode of payment" --> P8
    Admin -- "confirm order" --> O5
    Admin -- "order summary" --> GR10
    Admin -- "Show Feedbacks" --> F9
    Admin -- "Report" --> GR10

    Customers -- "Customer data" --> R1
    Customers -- "Check User" --> S2
    Customers -- "Product information" --> B3
    Customers -- "Product information and quantity" --> C4
    Customers -- "Order details" --> O5
    Customers -- "Customer information, shipping address, and order details" --> O5
    Customers -- "shipping details" --> S6
    Customers -- "confirmation" --> CH7
    Customers -- "payment details" --> P8
    Customers -- "comments" --> F9
    Customers -- "order summary" --> GR10

    R1 --> Database
    S2 --> Database
    B3 --> Database
    C4 --> Database
    O5 --> Database
    S6 --> Database
    CH7 --> Database
    P8 --> Database
    F9 --> Database
    GR10 --> Database

    Database --> Admin
    Database --> Customers
  
```

The diagram illustrates the mapping between a Java class, a database table, and a database schema. On the left, a red box labeled 'customers' represents the database table. In the center, a yellow box labeled '2.0' represents the database schema, and a blue box labeled 'CUSTOMERS' represents the Java class. Arrows point from the Java class to the database table and from the database schema to the database table. The attributes for each are listed above them:

- Java Class (CUSTOMERS):** username, first_name, last_name, email, password
- Database Table (customers):** first_name, last_name, email, password, date_added
- Database Schema (2.0):** username, first_name, last_name, email, password

```

graph LR
    Carts[Carts] -- "product_id" --> Cart[Cart]
    Cart -- "product name" --> CUSTOMERS[CUSTOMERS]
    CUSTOMERS -- "customer_id" --> Carts
  
```

The diagram illustrates a data flow process. On the left, there are two red rectangular boxes representing data sources: 'customer_address' and 'orders'. The 'customer_address' box lists attributes: customer_address_id, contact_no, house_num, street_name, barangay, city, country, and zip_code. The 'orders' box lists attributes: order_id and order_reference_number. Arrows indicate the flow of data: a red arrow points from the 'customer_address' box to a yellow rounded rectangle labeled 'Checkout'; a red arrow points from the 'orders' box to the 'Checkout' box; a red arrow points from the 'customer_address' box to the 'Checkout' box; a red arrow points from the 'orders' box to the 'Checkout' box; a blue arrow points from the 'Checkout' box to a blue rectangular box on the right. This blue box lists attributes: contact_no, house_num, street_name, barangay, city, country, and zip_code. The 'Checkout' box also contains the value '7.0'.

```

graph LR
    ADMIN[ADMIN] -- "customer_name  
shipping_address" --> Shipping[Shipping 6.0]
    Shipping -- "tracking_number  
shipping_fee  
expected_delivery" --> CUSTOMERS[CUSTOMERS]
    ADMIN -- "order_id  
tracking_number  
shipping_fee  
expected_delivery" --> Orders[Orders]
    Orders -- "order_id  
tracking_number  
shipping_fee  
expected_delivery" --> Shipping
  
```

The diagram illustrates the data flow in a shipping system. It features four main components: ADMIN (green box), Shipping (yellow box labeled 6.0), Orders (red box), and CUSTOMERS (blue box). The data flows are as follows:

- ADMIN to Shipping:** Transmits `customer_name` and `shipping_address`.
- Shipping to CUSTOMERS:** Transmits `tracking_number`, `shipping_fee`, and `expected_delivery`.
- ADMIN to Orders:** Transmits `order_id`, `tracking_number`, `shipping_fee`, and `expected_delivery`.
- Orders to Shipping:** Transmits `order_id`, `tracking_number`, `shipping_fee`, and `expected_delivery`.

```

classDiagram
    class Payment {
        8.0
    }
    class CUSTOMERS
    class ADMIN
    Payment --> CUSTOMERS : total_price, payment method
    Payment --> ADMIN : order_id, total_price, payment_method_id
  
```

```
classDiagram
    class ADMIN {
        +customer_name
        +order_id
        +order_reference_number
    }
    class Orders {
        +8.0
    }
    class orders {
    }
    ADMIN --> Orders : orderStatus
    Orders --> ADMIN : customer_name, order_id, order_reference_number
    Orders --> orders : order_id, customer_name, order_date, order_status, total_price, order_reference_number, expected_delivery, shipping_fee_id
```

The diagram illustrates the relationships between three classes: ADMIN, Orders, and orders. ADMIN is a green box, Orders is a yellow box, and orders is a red box. ADMIN has attributes customer_name, order_id, and order_reference_number. Orders has an attribute 8.0. The relationship between ADMIN and Orders is bidirectional, with ADMIN sending orderStatus to Orders and Orders returning customer_name, order_id, and order_reference_number to ADMIN. Orders has a directed association to orders, sending order_id, customer_name, order_date, order_status, total_price, order_reference_number, expected_delivery, and shipping_fee_id.

The diagram illustrates a product catalog system with the following components and data flows:

- Products Table:** Contains attributes: product_id, product_name, category_name, brand, model.
- Browse / View Products (4.0):** Acts as an intermediary, receiving data from the Products table and providing data to the CUSTOMERS table. It also receives data from the Reviews table.
- CUSTOMERS Table:** Contains attributes: product_name, description, category_name, brand, model, price, stock, quantity, specification.
- Reviews Table:** Contains attributes: customer_name, rating, comment, dateAdded.

Data Flows:

- Products to Browse / View Products:** Data flow includes product_id, product_name, category_name, brand, model.
- Browse / View Products to CUSTOMERS:** Data flow includes product_name, description, category_name, brand, model, price, stock, quantity, specification.
- Reviews to Browse / View Products:** Data flow includes customer_name, rating, comment, dateAdded.

The diagram illustrates the relationships between four entities: Reviews, Feedbacks, CUSTOMERS, and ADMIN.

- Reviews** (Red box) is connected to **Feedbacks** (Yellow box) by a red double-headed arrow. The attributes associated with this relationship are: review_id, product_id, customer_id, rating, comment, and date_added.
- CUSTOMERS** (Blue box) is connected to **Feedbacks** (Yellow box) by a blue arrow pointing from CUSTOMERS to Feedbacks. The attributes associated with this relationship are: product_name, rating, and comment.
- ADMIN** (Green box) is connected to **Feedbacks** (Yellow box) by a green arrow pointing from Feedbacks to ADMIN. The attributes associated with this relationship are: customer_name, product_name, rating, comment, and date_added.

Report to admin

```

graph LR
    ADMIN[ADMIN]
    GR[Generate Reports]
    orders[orders]
    customers[customers]
    products[products]
    orderItems[orderItems]

    orders -- "customer_id  
order_id  
order_date  
order_status  
total_price" --> GR
    customers -- "customer_id  
user_name  
first_name  
last_name  
email  
password  
date_added" --> GR
    products -- "product_id  
product_name  
description  
category_name  
brand  
model  
price  
stock_quantity" --> GR
    orderItems -- "orderItem_id  
order_id  
product_id  
quantity" --> GR

    GR -- "Sales Report  
Customer Report  
Inventory Report" --> ADMIN
  
```

The diagram illustrates the data flow for reports generated for an administrator. The 'ADMIN' box receives reports from the 'Generate Reports' box. The 'Generate Reports' box receives data from three tables: 'orders', 'customers', and 'products'. The 'Generate Reports' box also outputs reports to the 'ADMIN' box.

ADMIN

Generate Reports

orders

- customer_id
- order_id
- order_date
- order_status
- total_price

customers

- customer_id
- user_name
- first_name
- last_name
- email
- password
- date_added

products

- product_id
- product_name
- description
- category_name
- brand
- model
- price
- stock_quantity

orderItems

- orderItem_id
- order_id
- product_id
- quantity

Reports to ADMIN:

- Sales Report
- Customer Report
- Inventory Report