

GROUP 4

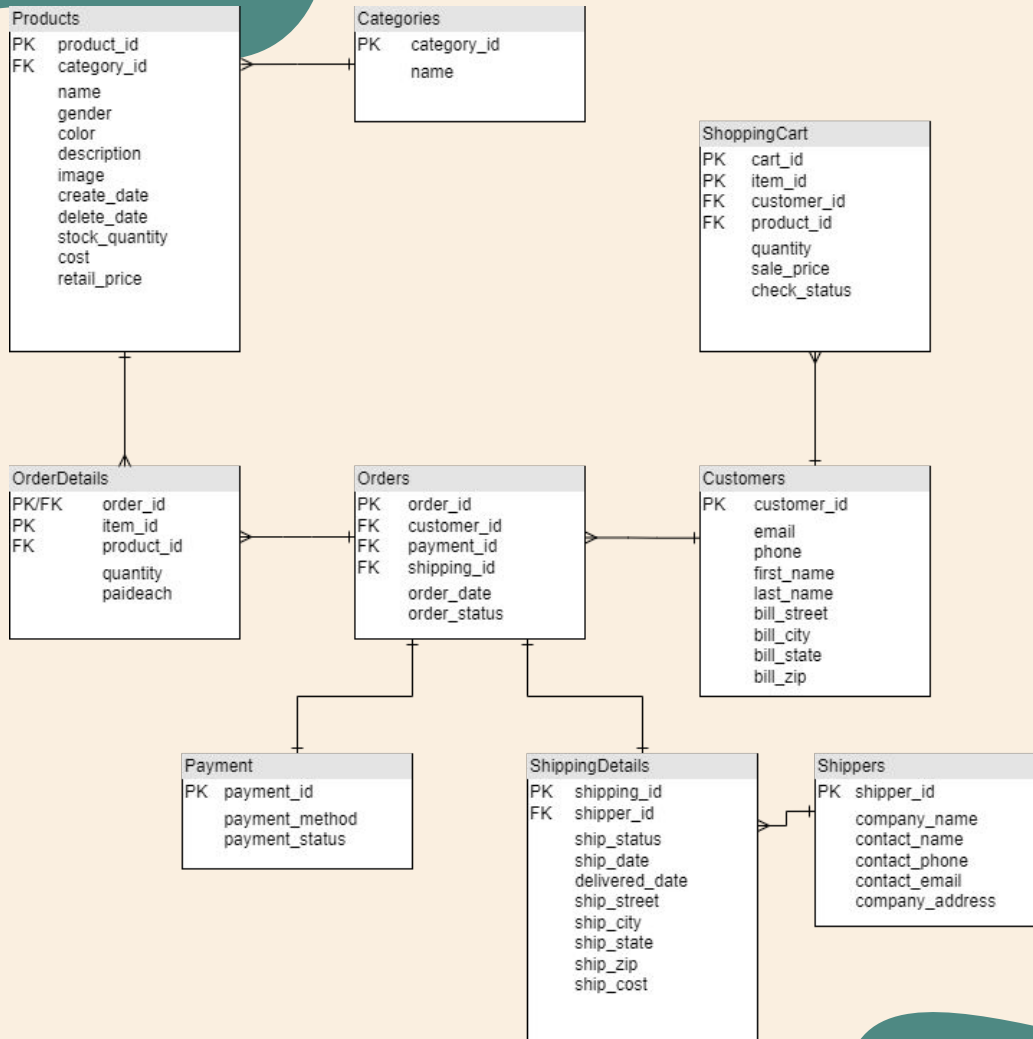
FASHION

BAGS

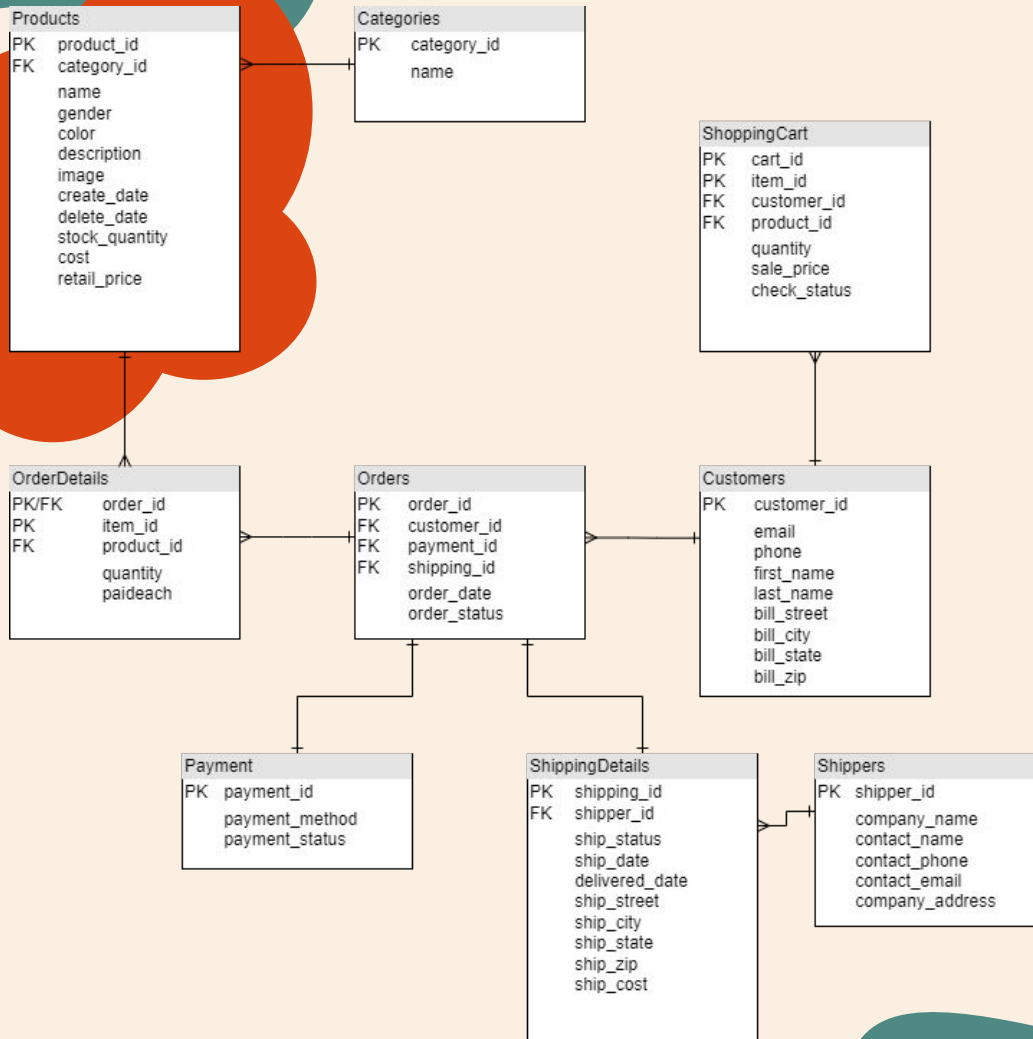
Yiu Yiu Yoyo Ho
Denisjann Reyes



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PRODUCTS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
product_id	Unique identifier for product	Primary Key	VARCHAR2	
category_id	Foreign key to the categories table	Foreign Key	NUMBER	
name	The name of the product	Not Null	VARCHAR2	
gender	The gender category of the product	Not Null, Possible values: "Men" , "Women", "Unisex"	VARCHAR2	
color	The color of the product	Not Null	VARCHAR2	Hex color code
description	The description of the product		VARCHAR2	
image	The image url of the product		VARCHAR2	image url link
create_date	The date of the product to hit the store shelves		DATE	
delete_date	The date of the product to be no longer be sold		DATE	
stock_quantity	The inventory number of the product	Not Null, >=0	NUMBER	
cost	The cost of the product	Not Null, >0	NUMBER	
retail_price	The retail price of the product	Not Null, retail_price - cost > 0	NUMBER	

PRODUCTS

```
CREATE TABLE Products (  
    product_id VARCHAR2(20) PRIMARY KEY,  
    category_id NUMBER,  
    name VARCHAR2(50) NOT NULL,  
    gender VARCHAR2(10) NOT NULL,  
    color VARCHAR2(10) NOT NULL,  
    description VARCHAR2(200),  
    image VARCHAR2(200),  
    create_date DATE,  
    delete_date DATE,  
    stock_quantity NUMBER NOT NULL CHECK (stock_quantity  
>= 0),  
    COST NUMBER NOT NULL CHECK (COST > 0),  
    retail_price NUMBER NOT NULL  
);
```

```
0.  --Constraints  
1.  --Constraint#1 foreign key  
2.  ALTER TABLE Products  
3.  ADD CONSTRAINT fk_category_id  
4.  FOREIGN KEY (category_id)  
5.  REFERENCES Categories(category_id);
```

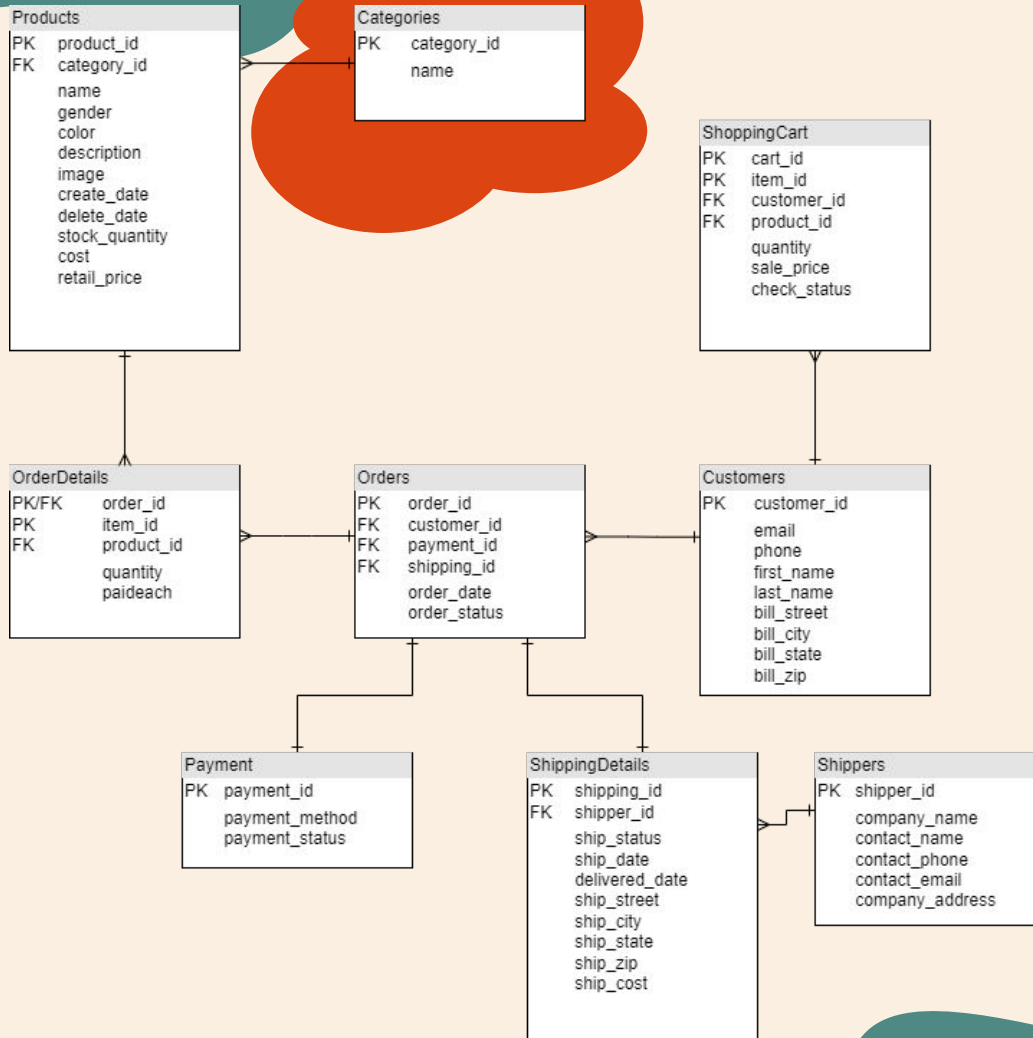
```
0.  --Constraint#3 possible values  
1.  ALTER TABLE Products  
2.  ADD CONSTRAINT check_gender_values  
3.  CHECK (gender IN ('Unisex', 'Women', 'Men'));
```

```
0.  --Constraint#5 check  
1.  ALTER TABLE Products  
2.  ADD CONSTRAINT chk_retail_price  
3.  CHECK (retail_price > COST);
```

PRODUCTS

	PRODUCT_ID	CATEGORY_ID	NAME	GENDER	COLOR	DESCRIPTION	IMAGE	CREATE_DATE	DELETE_DATE	STOCK...	COST	RETAIL_PRICE
1	P8430	2204	Classic Sat...	Women	FF00FF	(null)	(null)	21-07-20	22-12-31	0	450	900
2	P124	2201	Eva Backpack	Women	0000FF	(null)	(null)	22-01-15	(null)	25	350	725
3	P6291	2202	Explorer Wa...	Unisex	FFA500	(null)	(null)	22-03-10	23-03-10	10	25	120
4	C6291	2202	Charter Bel...	Unisex	FF0000	Soft polished pebble leather	https://images.coac...	22-04-07	22-12-02	2	40	240
5	C8749	2203	Wyn Crossbody	Women	00FF00	Removable pouch with six ...	https://images.coac...	(null)	(null)	87	129	275
6	C8430	2204	Soft Tabby ...	Men	FFFFFF	Inside zip and multifunct...	https://images.coac...	18-03-30	22-11-14	0	600	750
7	P735	2204	Messenger Bag	Unisex	00FFFF	(null)	(null)	22-02-05	(null)	100	150	350
8	CH757	2206	Relay Tote 34	Unisex	964B00	Magnetic snap closure	(null)	22-10-10	(null)	55	280	480
9	P8749	2203	Blake Messe...	Men	808080	(null)	(null)	(null)	(null)	50	90	225
10	CI124	2201	Riya Backpack	Women	000000	Soft pebble leather and g...	https://images.coac...	21-01-01	(null)	10	300	610
11	C5457	2202	Crossbody B...	Unisex	008080	(null)	(null)	22-09-03	(null)	25	50	180
12	CI935	2203	Maggie Hobo	Women	FFA07A	(null)	(null)	21-07-15	(null)	75	200	450
13	CH633	2206	Luggage Tot...	Unisex	000080	(null)	(null)	23-01-19	(null)	40	350	750
14	CH735	2204	Tabby Shoul...	Women	FFC0CB	Polished pebble leather	https://images.coac...	23-02-25	(null)	93	203	550
15	CH739	2205	Dakota Buck...	Women	cc9966	(null)	https://images.coac...	23-03-01	(null)	230	100	610

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CATEGORIES

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
category_id	Unique identifier for category	Primary Key	NUMBER	Auto-incremented
name	The name of category	Not Null	VARCHAR2	

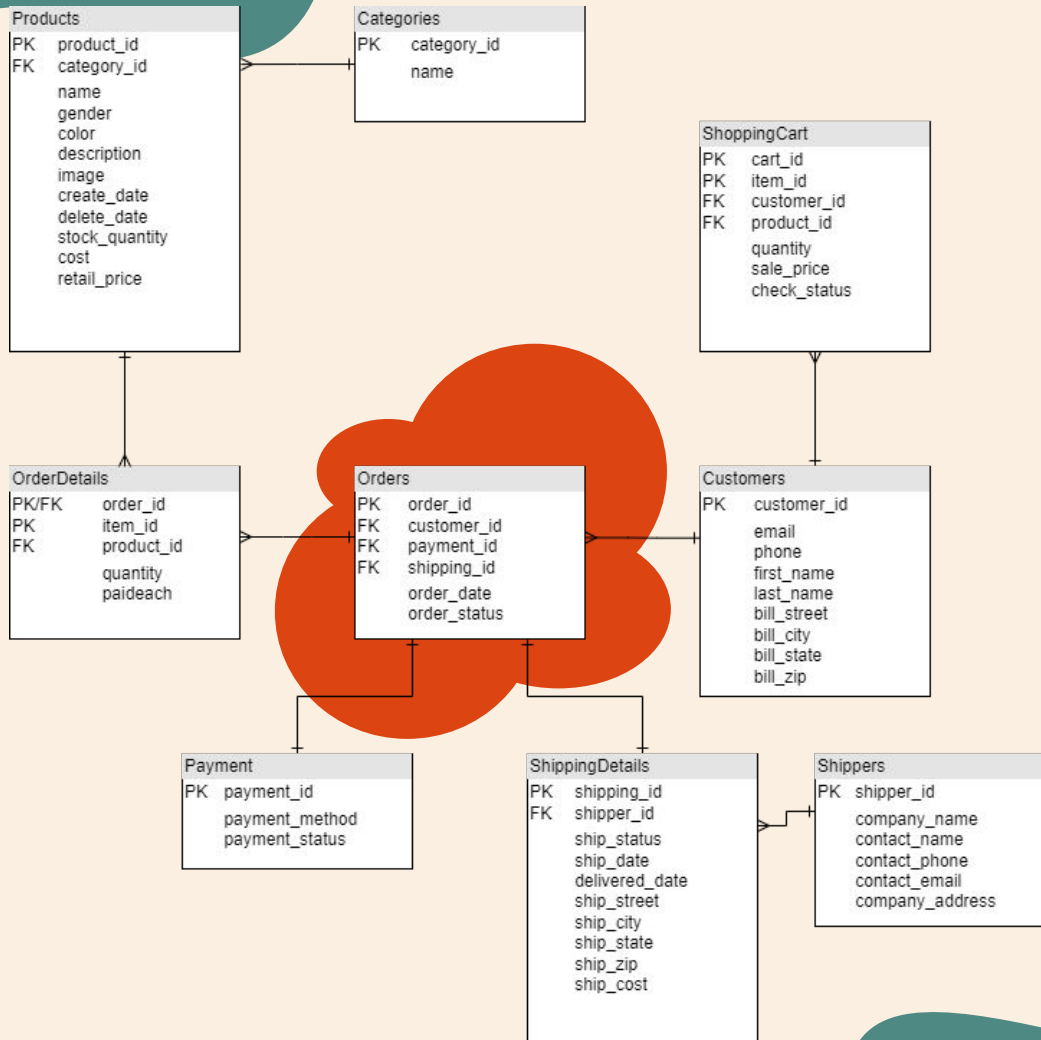
CATEGORIES

```
CREATE TABLE Categories (  
  category_id NUMBER GENERATED BY DEFAULT AS IDENTITY  
  (START WITH 201) PRIMARY KEY,  
  name VARCHAR2(50) NOT NULL  
);
```

CATEGORIES

	⚡ CATEGORY_ID	⚡ NAME
1	2201	Backpacks
2	2202	Belt Bags
3	2203	Clutches
4	2204	Crossbody Bags
5	2205	Shoulder Bags
6	2206	Totes

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ORDERS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
order_id	Unique identifier for order	Primary Key	NUMBER	Auto-incremented
customer_id	Foreign key to the customer table	Foreign Key	NUMBER	
payment_id	Foreign key to the payment table	Foreign Key	NUMBER	
shipping_id	Foreign key to the shipping details table	Foreign Key	NUMBER	
order_date	The date of customer make the order	Not Null	DATE	
order_status	The status of the order	Not Null, Possible values: "Paid" , "Processing", "Shipped", "OnHold", "Cancelled"	VARCHAR2	

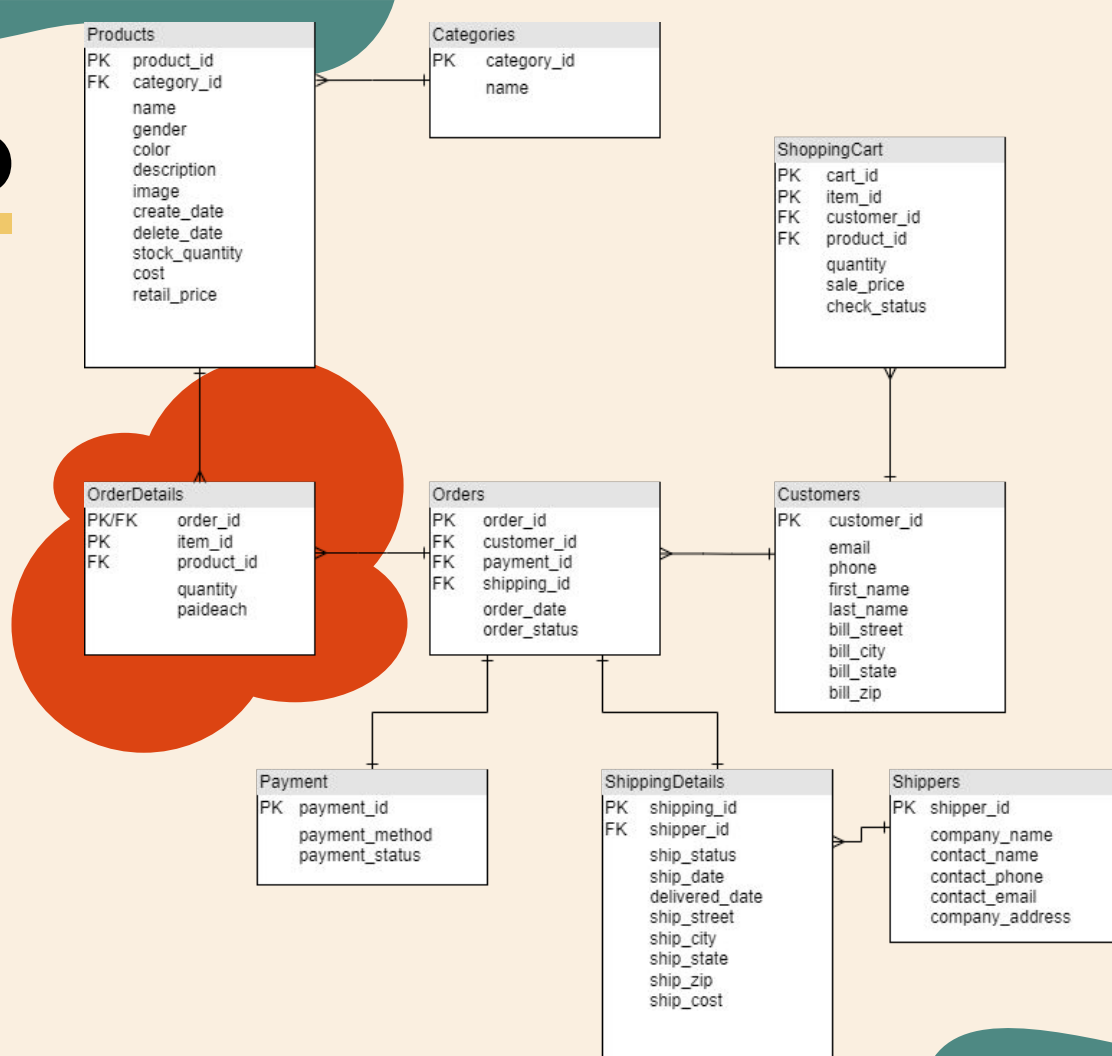
ORDERS

```
CREATE TABLE Orders (  
  order_id NUMBER GENERATED BY DEFAULT AS IDENTITY (START WITH  
5501) NOT NULL,  
  customer_id NUMBER,  
  payment_id NUMBER,  
  shipping_id NUMBER,  
  order_date DATE NOT NULL,  
  order_status VARCHAR2(20) NOT NULL,  
  PRIMARY KEY (order_id),  
  FOREIGN KEY (customer_id) REFERENCES Customers  
(customer_id),  
  FOREIGN KEY (payment_id) REFERENCES Payment (payment_id),  
  FOREIGN KEY (shipping_id) REFERENCES ShippingDetails  
(shipping_id),  
  CHECK (order_status IN ('Paid', 'Processing', 'Shipped',  
'OnHold', 'Cancelled'))  
);
```

ORDERS

	ORDER_ID	CUSTOMER_ID	PAYMENT_ID	SHIPPING_ID	ORDER_DATE	ORDER_STATUS
1	5501	3301	7701	8801	23-01-02	Paid
2	5502	3304	7702	8802	23-01-03	Processing
3	5503	3310	7703	8803	23-01-04	Shipped
4	5504	3304	7704	8804	23-01-05	Cancelled
5	5505	3302	7705	8805	23-01-06	Shipped
6	5506	3313	7706	8806	23-01-07	Cancelled
7	5507	3315	7707	8807	23-01-08	Shipped
8	5508	3311	7708	8808	23-01-09	Processing
9	5509	3311	7709	8809	23-01-10	Shipped
10	5510	3308	7710	8810	23-01-11	Shipped

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ORDER DETAILS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
order_id	Unique identifier for orderitem, forming PK with item_id	Primary Key/ Foreign Key	NUMBER	Auto-incremented
item_id	The item number in the order	Primary Key	NUMBER	
product_id	Foreign key to the product table	Foreign Key	VARCHAR2	
quantity	The amount of the product in the order	Not Null, >0	NUMBER	
paid_each	The price paid for each product	Not Null	NUMBER	

ORDER DETAILS

```
CREATE TABLE OrderDetails (  
  order_id NUMBER,  
  item_id NUMBER,  
  product_id VARCHAR2(20),  
  quantity NUMBER NOT NULL,  
  paid_each NUMBER NOT NULL,  
  FOREIGN KEY (order_id) REFERENCES Orders (order_id),  
  FOREIGN KEY (product_id) REFERENCES Products (product_id)  
);
```

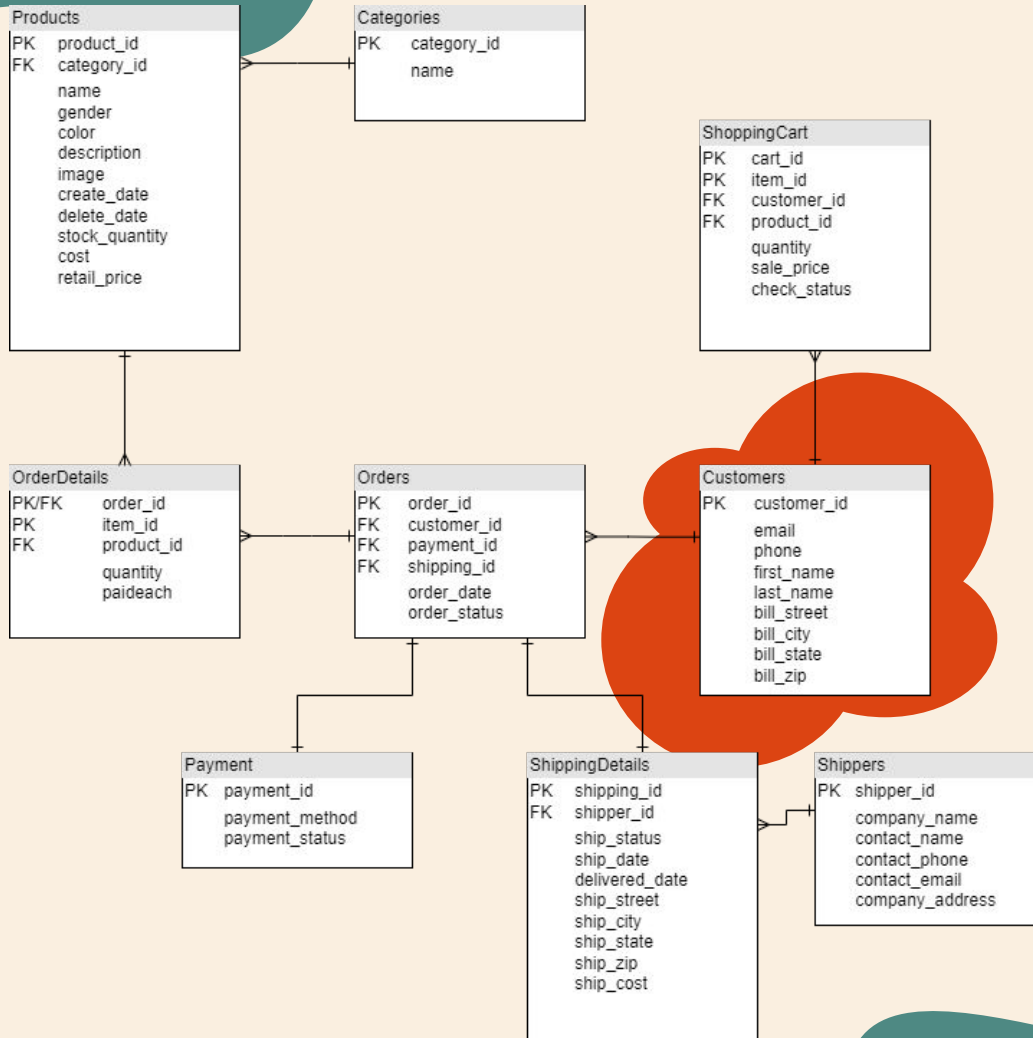
```
0.  --Constraint#4 primary key  
1.  ALTER TABLE OrderDetails  
2.  ADD CONSTRAINT pk_OrderDetails PRIMARY KEY (order_id,  
    item_id);
```

```
0.  --Constraint#5 check  
1.  ALTER TABLE OrderDetails  
2.  ADD CONSTRAINT chk_quantity CHECK (quantity > 0);
```

ORDER DETAILS

	ORDER_ID	ITEM_ID	PRODUCT_ID	QUANTITY	PAID_EACH
1	5501	1	P8430	1	900
2	5502	1	P124	1	725
3	5502	2	P6291	1	120
4	5503	1	C6291	1	240
5	5504	1	C8749	3	275
6	5505	1	C8430	1	750
7	5506	1	P735	1	350
8	5507	1	CH757	1	480
9	5507	2	P8749	1	225
10	5507	3	CI124	2	610
11	5508	1	C5457	1	180
12	5509	1	CI935	1	450
13	5509	2	CH633	1	750
14	5510	1	CH735	2	550
15	5510	2	CH739	1	610

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CUSTOMERS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
customer_id	Unique identifier for customer	Primary Key	NUMBER	Auto-incremented
email	The phone email of the customer	Unique	VARCHAR2	
phone	The phone number of the customer	Not Null, unique	NUMBER	
first_name	The first name of the customer	Not Null	VARCHAR2	
last_name	The last name of the customer	Not Null	VARCHAR2	
bill_street	The street in billing address		VARCHAR2	
bill_city	The city in billing address		VARCHAR2	
bill_state	The state in billing address		VARCHAR2	
bill_zip	The zip in billing address		VARCHAR2	

CUSTOMERS

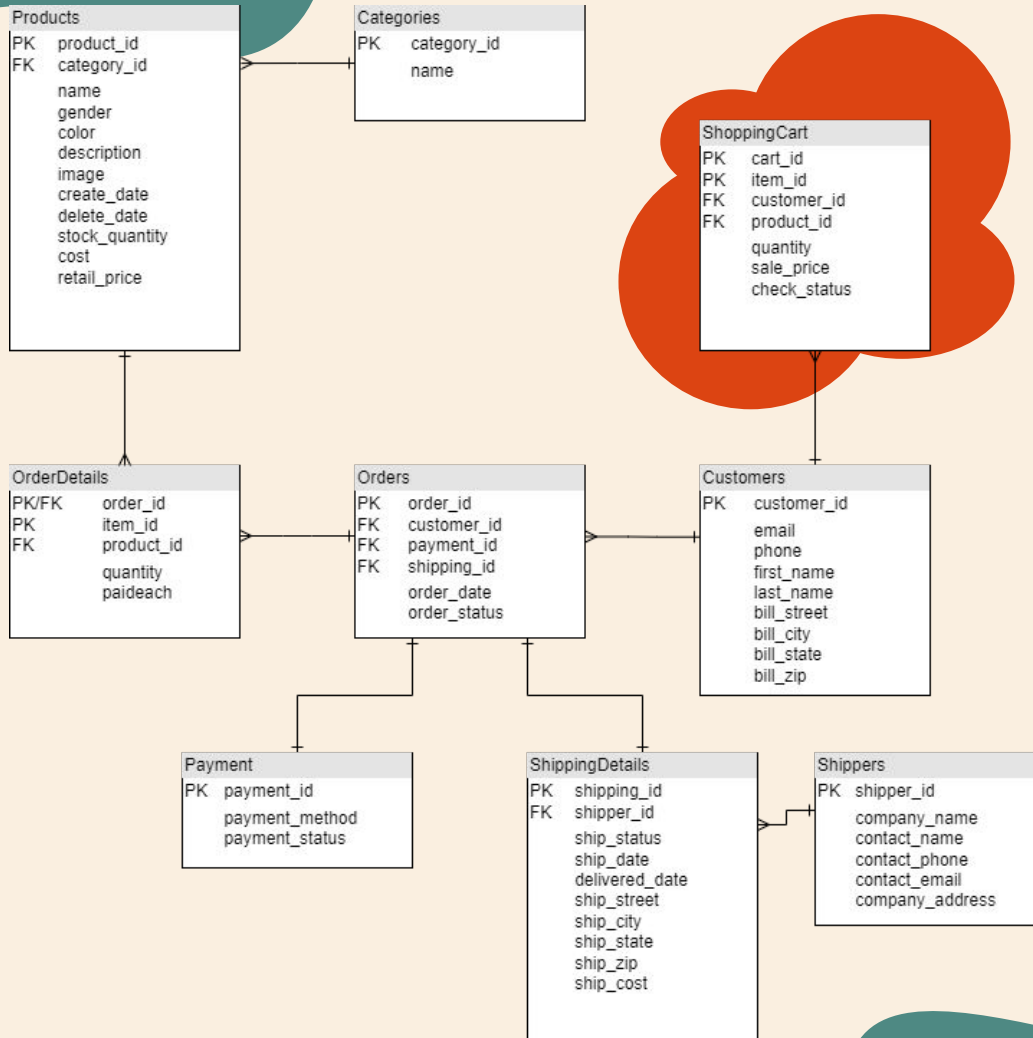
```
CREATE TABLE Customers (  
    customer_id NUMBER GENERATED BY DEFAULT AS IDENTITY  
    (START WITH 3301) PRIMARY KEY,  
    email VARCHAR2(50),  
    phone NUMBER NOT NULL UNIQUE,  
    first_name VARCHAR2(50) NOT NULL,  
    last_name VARCHAR2(50) NOT NULL,  
    bill_street VARCHAR2(100),  
    bill_city VARCHAR2(50),  
    bill_state VARCHAR2(50),  
    bill_zip VARCHAR2(20)  
);
```

0. *--Constraint#2 unique*
1. ALTER TABLE Customers
2. ADD CONSTRAINT uc_email UNIQUE (email);
- 3.

CUSTOMERS

	⚡ CUSTOMER_ID	⚡ EMAIL	⚡ PHONE	⚡ FIRST_NAME	⚡ LAST_NAME	⚡ BILL_STREET	⚡ BILL_CITY	⚡ BILL_STATE	⚡ BILL_ZIP
1	3301	anna@gmail.com	4165551234	Anna	Smith	123 Main St	Toronto	ON	M1S 1T4
2	3302	bob@gmail.com	9055555678	Bob	Johnson	456 1st Ave	Vancouver	BC	V6B 1V5
3	3303	charlie@gmail.com	5145559876	Charlie	Lee	789 2nd St	Montreal	QC	H3B 1A6
4	3304	david@gmail.com	6475553456	David	Nguyen	101 3rd Blvd	Ottawa	ON	K1P 5M7
5	3305	emily@gmail.com	6045557890	Emily	Wong	234 Elm St	Vancouver	BC	V6C 2W6
6	3306	frank@gmail.com	4165552345	Frank	Garcia	567 4th Ave	Toronto	ON	M4S 2T3
7	3307	grace@gmail.com	9055556789	Grace	Chen	890 5th St	Vancouver	BC	V6E 1R6
8	3308	henry@gmail.com	5145554321	Henry	Kim	123 Main St	Montreal	QC	H3B 2T4
9	3309	isabelle@gmail.com	6475558765	Isabelle	Liu	456 1st Ave	Ottawa	ON	K1P 6M8
10	3310	jason@gmail.com	6045556543	Jason	Cho	789 2nd St	Vancouver	BC	V6C 3W7
11	3311	karen@gmail.com	4165559876	Karen	Park	101 3rd Blvd	Toronto	ON	M4S 3T2
12	3312	leo@gmail.com	9055553210	Leo	Shin	234 Elm St	Vancouver	BC	V6E 2R7
13	3313	maggie@gmail.com	5145557654	Maggie	Zhang	567 4th Ave	Montreal	QC	H3B 3A5
14	3314	nathan@gmail.com	6475550123	Nathan	Tran	890 5th St	Ottawa	ON	K1P 7M9
15	3315	olivia@gmail.com	6045554567	Olivia	Ng	123 Main St	Vancouver	BC	V6C 4X8

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SHOPPING CART

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
cart_id	identifier for cart, forming PK with item_id	Primary Key	NUMBER	
item_id	The item number in the cart, forming PK with cart_id	Primary Key	NUMBER	
customer_id	Foreign key to the customer table	Foreign Key	NUMBER	
product_id	Foreign key to the product table	Foreign Key	VARCHAR2	
quantity	The amount of the product in the cart	Not Null, >0	NUMBER	
sale_price	The price of customers going to pay	Not Null	NUMBER	
check_status	The cart has been checked out or not	DEFAULT 'Not Checked Out', Possible values: "Checked Out", "Not Checked Out"	VARCHAR2	

SHOPPING CART

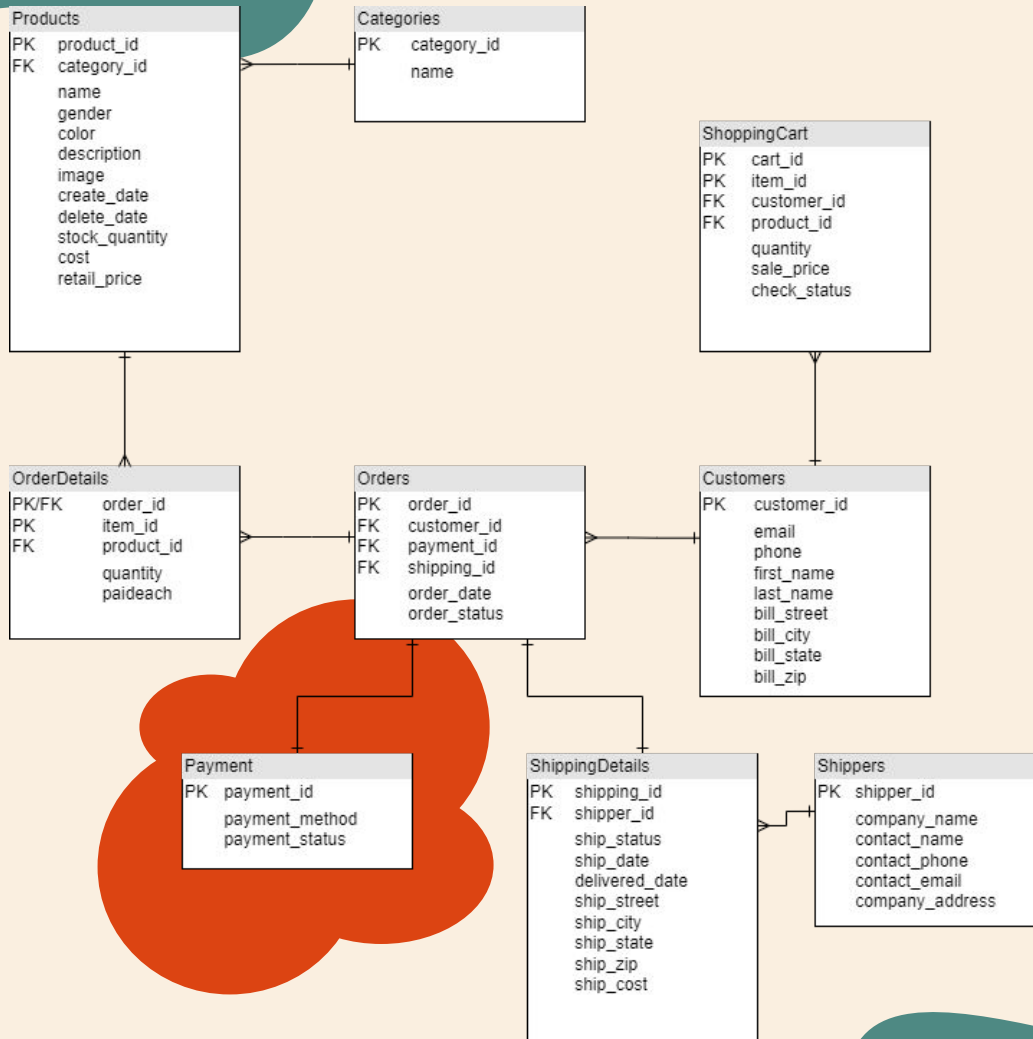
```
CREATE TABLE ShoppingCart (  
  cart_id NUMBER NOT NULL CHECK (cart_id LIKE '44%'),  
  item_id NUMBER NOT NULL,  
  customer_id NUMBER,  
  product_id VARCHAR2(50),  
  quantity NUMBER NOT NULL CHECK (quantity > 0),  
  sale_price NUMBER NOT NULL,  
  check_status VARCHAR2(20) DEFAULT 'Not Checked Out',  
  PRIMARY KEY (cart_id, item_id),  
  FOREIGN KEY (customer_id) REFERENCES Customers  
  (customer_id),  
  FOREIGN KEY (product_id) REFERENCES Products (product_id)  
);
```

```
0.  
1.  --Constraint#3 possible values  
2.  ALTER TABLE ShoppingCart  
3.  ADD CONSTRAINT check_status_values  
4.  CHECK (check_status IN ('Checked Out', 'Not Checked Out'));  
5.
```

SHOPPING CART

	⌄ CART_ID	⌄ ITEM_ID	⌄ CUSTOMER_ID	⌄ PRODUCT_ID	⌄ QUANTITY	⌄ SALE_PRICE	⌄ CHECK_STATUS
1	4401	1	3309	P8430	2	1800	Not Checked Out
2	4402	1	3302	C8430	1	750	Not Checked Out
3	4402	2	3302	CI124	1	610	Not Checked Out
4	4402	3	3302	P8430	1	900	Not Checked Out
5	4403	1	3313	C5457	1	180	Not Checked Out
6	4404	1	3315	CH735	2	1100	Not Checked Out
7	4404	2	3315	CI935	1	450	Not Checked Out
8	4405	1	3304	C5457	1	180	Not Checked Out
9	4405	2	3304	P6291	1	120	Not Checked Out
10	4405	3	3304	C5457	3	540	Not Checked Out

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PAYMENT

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
payment_id	Unique identifier for transaction	Primary Key	NUMBER	Auto-incremented
payment_method	The way customer used to pay	Not Null	VARCHAR2	
payment_status	The status of the payment	Not Null, Possible values: "Pending", "Successful", "Fail", "Refund"	VARCHAR2	

PAYMENT

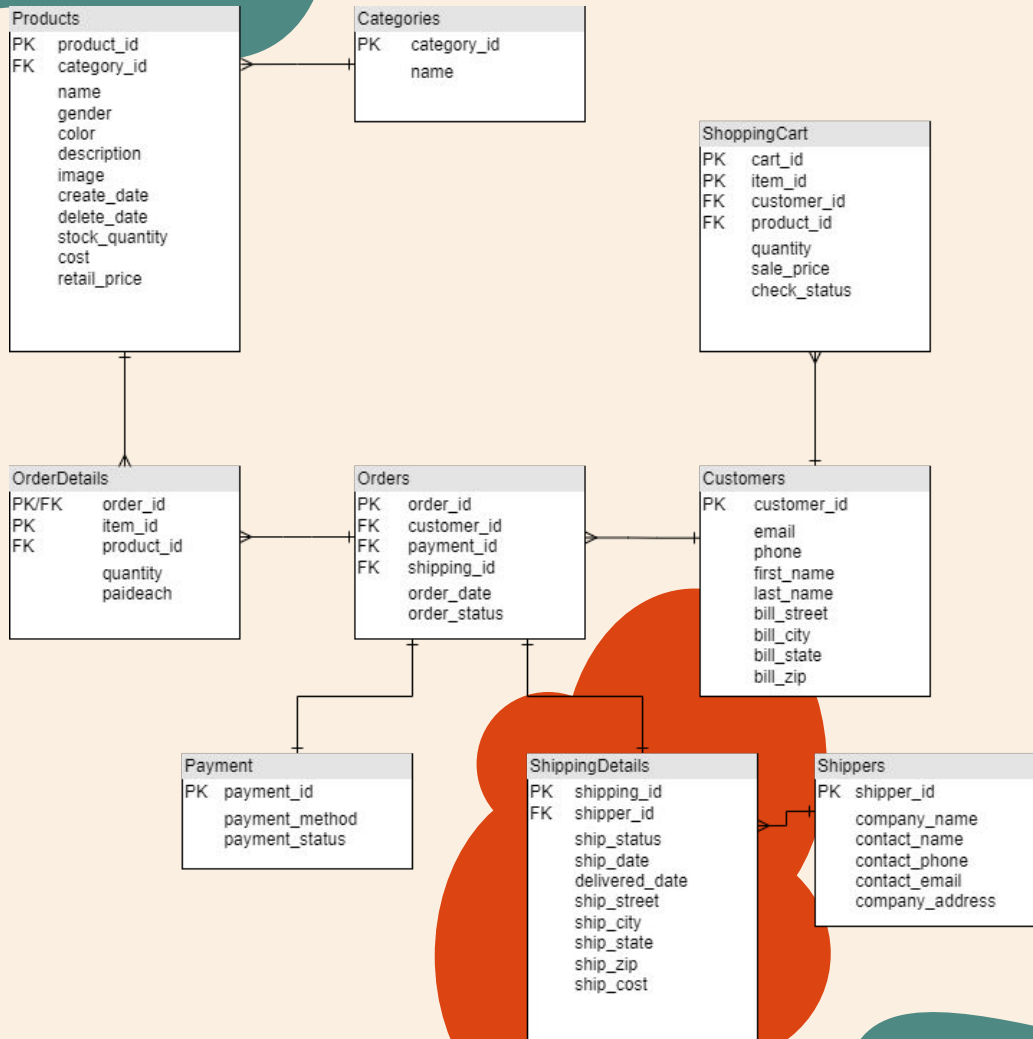
```
CREATE TABLE Payment (  
    payment_id NUMBER GENERATED BY DEFAULT AS IDENTITY (START  
WITH 7701) PRIMARY KEY,  
    payment_method VARCHAR2(50) NOT NULL,  
    payment_status VARCHAR2(20) NOT NULL  
);
```

```
0.  
1.  --Constraint#3 possible values  
2.  ALTER TABLE Payment  
3.  ADD CONSTRAINT check_payment_status_values  
4.  CHECK (payment_status IN ('Pending', 'Successful', 'Fail',  
    'Refund'));  
5.
```

PAYMENT

	⚡ PAYMENT_ID	⚡ PAYMENT_METHOD	⚡ PAYMENT_STATUS
1	7701	CREDIT CARD	Successful
2	7702	CREDIT CARD	Successful
3	7703	DEBIT CARD	Successful
4	7704	CREDIT CARD	Fail
5	7705	DEBIT CARD	Successful
6	7706	DEBIT CARD	Fail
7	7707	CREDIT CARD	Pending
8	7708	CREDIT CARD	Successful
9	7709	DEBIT CARD	Successful
10	7710	CREDIT CARD	Pending

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SHIPPING DETAILS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
shipping_id	Unique identifier for the shipping details	Primary Key	NUMBER	Auto-incremented
shipper_id	Foreign key to the shipper table	Foreign Key	NUMBER	
ship_status	The shipping status of the order	Possible values: "Awaiting", "Dispatched", "Processing", "Out of Delivery", "Delivered", "Rearrange delivery date", "Fail to deliver", "Cancelled"	VARCHAR2	
ship_date	The shipping date of the order		DATE	
delivered_date	The date of the order delivered		DATE	
ship_street	The street in shipping address		VARCHAR2	
ship_city	The city in shipping address		VARCHAR2	
ship_state	The state in shipping address		VARCHAR2	
ship_zip	The zip in shipping address		VARCHAR2	
ship_cost	The cost of delivery charged by shipper		VARCHAR2	

SHIPPING DETAILS

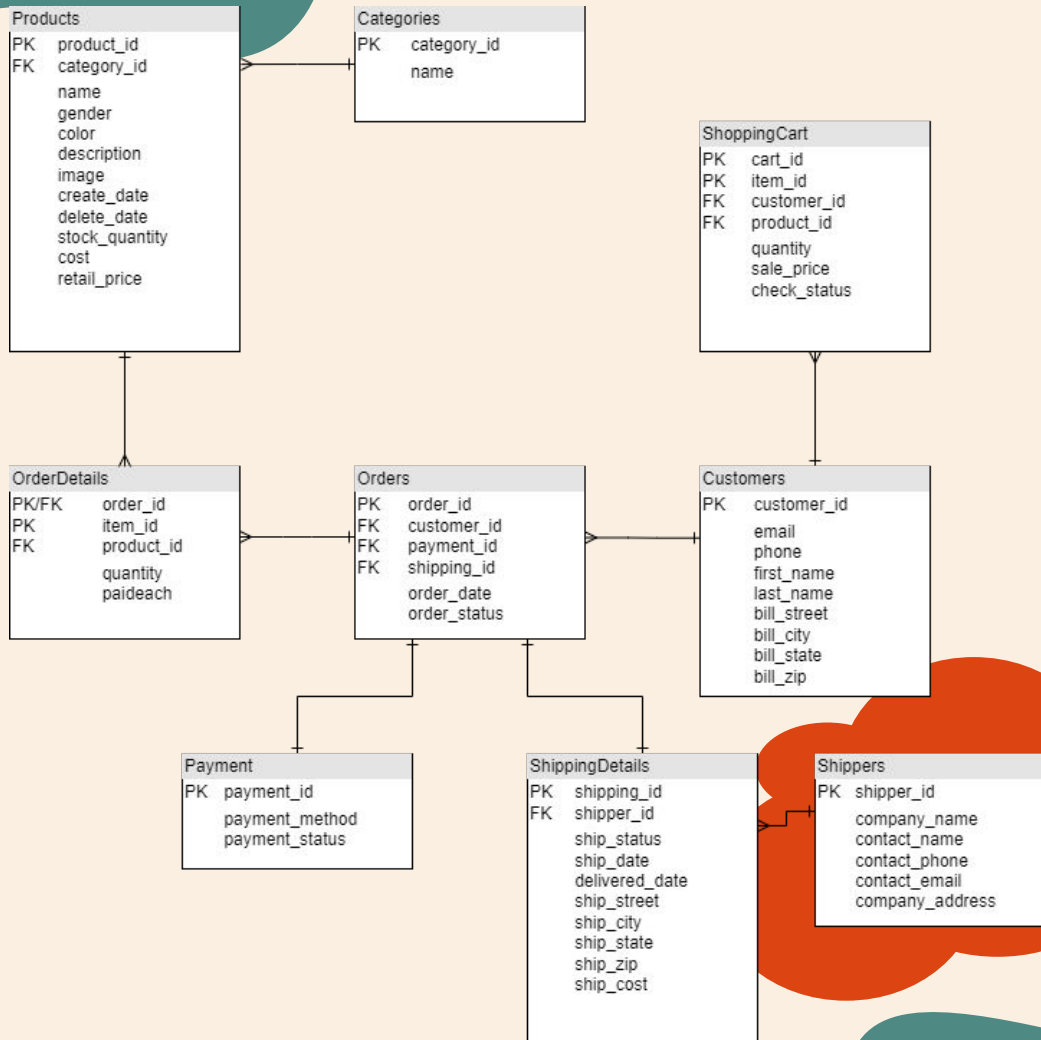
```
CREATE TABLE ShippingDetails (  
    shipping_id NUMBER GENERATED BY DEFAULT AS IDENTITY (START  
WITH 8801) PRIMARY KEY,  
    shipper_id NUMBER REFERENCES Shippers(shipper_id),  
    ship_status VARCHAR2(50),  
    ship_date DATE,  
    delivered_date DATE,  
    ship_street VARCHAR2(50),  
    ship_city VARCHAR2(50),  
    ship_state VARCHAR2(50),  
    ship_zip VARCHAR2(50),  
    ship_cost NUMBER  
);
```

- 0.
1. *--Constraint#3 possible values*
2. ALTER TABLE ShippingDetails
3. ADD CONSTRAINT ship_status_values
4. CHECK (ship_status IN ('Awaiting', 'Dispatched', 'Processing',
'Out of Delivery', 'Delivered', 'Rearrange delivery date',
'Fail to deliver', 'Cancelled'));
- 5.

SHIPPING DETAILS

	SHIPPING_ID	SHIPPER_ID	SHIP_STATUS	SHIP_DATE	DELIVERED_DATE	SHIP_STREET	SHIP_CITY	SHIP_STATE	SHIP_ZIP	SHIP_COST
1	8801	9901	Awaiting	(null)	(null)	123 Main St	Toronto	ON	M1S 1T4	(null)
2	8802	9903	Awaiting	(null)	(null)	101 3rd Blvd	Ottawa	ON	K1P 5M7	(null)
3	8803	9904	Dispatched	23-01-04	(null)	789 2nd St	Vancouver	BC	V6C 3W7	(null)
4	8804	9902	Cancelled	(null)	(null)	123 Main St	Toronto	ON	M1S 1S1	(null)
5	8805	9903	Delivered	23-01-08	23-01-08	456 Queen St	Vancouver	BC	V6B 1A1	(null)
6	8806	9903	Fail to deliver	23-01-07	(null)	789 Bay St	Montreal	QC	H3C 1N2	(null)
7	8807	9905	Out of Delivery	23-01-08	(null)	789 Bay St	Montreal	QC	H3C 1N2	(null)
8	8808	9901	Awaiting	(null)	(null)	2468 King St	Halifax	NS	B3K 5M7	(null)
9	8809	9901	Rearrange delivery date	23-01-10	(null)	101 3rd Blvd	Toronto	ON	M4S 3T2	(null)
10	8810	9901	Fail to deliver	23-01-11	(null)	123 Main St	Montreal	QC	H3B 2T4	(null)

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SHIPPERS

Attribute	Description	Key Type/ Constraint	Data Type	Data Description
shipper_id	Unique identifier for the shipper	Primary Key	NUMBER	Auto-incremented
company_name	The name of the shipper	Not Null	VARCHAR2	
contact_name	The name of the contact person		VARCHAR2	
contact_phone	The phone number of the contact person	Not Null	NUMBER	
contact_email	The email of the contact person		VARCHAR2	
company_addresses	The shipper's office address		VARCHAR2	

SHIPPERS

```
0. CREATE TABLE Shippers (  
1.     shipper_id NUMBER GENERATED BY DEFAULT AS IDENTITY (START  
    WITH 9901) PRIMARY KEY,  
2.     company_name VARCHAR2(50) NOT NULL,  
3.     contact_name VARCHAR2(50),  
4.     contact_phone NUMBER(10) NOT NULL,  
5.     contact_email VARCHAR2(50),  
6.     company_address VARCHAR2(100)  
7. );
```

SHIPPERS

	SHIPPER_ID	COMPANY_NAME	CONTACT_NAME	CONTACT_PHONE	CONTACT_EMAIL	COMPANY_ADDRESS
1	9901	ABC Shipping	(null)	6045551234	(null)	(null)
2	9902	XYZ Freight	John Smith	5145555678	jsmith@xyzfreight.com	123 Main St
3	9903	Acme Transport	Jane Doe	6475559999	jdoe@acmetransport.com	456 Elm St
4	9904	GHI Logistics	Bob Johnson	6045552468	(null)	789 Maple Ave
5	9905	PQR Express	Ken Lou	4165557777	(null)	321 Oak St