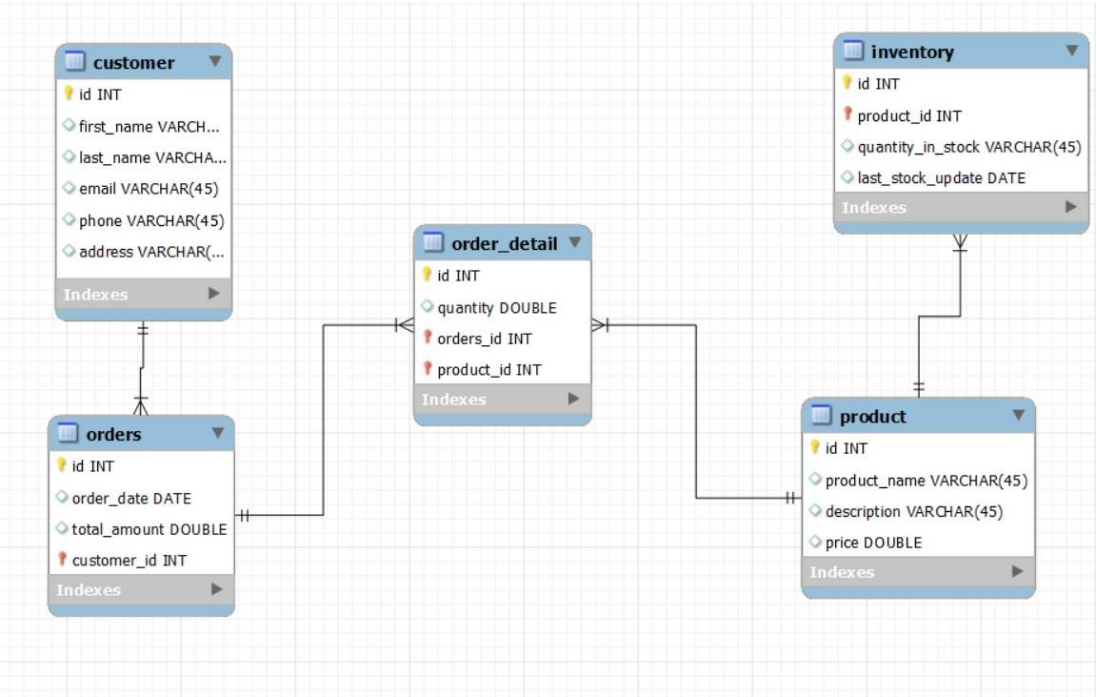
Electronic Gadget



use electronic;

-- TASK 1

-- customer TABLE

INSERT INTO customer

VALUES

(1,'Harry','Potter','harry_potter@hogwarts.com','98547598','Chennai'),

(2,'Hermione','Granger','hermione_granger@hogwarts.com','48473998','Bangalore'),

(3,'Ron','Weasley','ron_weasley@hogwarts.com','78647598','New York'),

(4,'Albus','Dumbledore','albus_dumbledore@hogwarts.com','956647598','London'),

(5,'Luna','Lovegood','luna_lovegood@hogwarts.com','737347598','Coimbatore'),

(6,'Ginny','Weasley','ginny_weasley@hogwarts.com','57854598','Kerala'),

```
(7,'Neville','Longbottom','neville_longbottom@hogwarts.com','9485744','Chennai'),
(8,'Sirius','Black','sirius_black@hogwarts.com','9218338','Bangalore'),
(9,'Remus','Lupin','remus_lupin@hogwarts.com','69848433','Hyderabad'),
(10,'Minerva','McGonagall','minerva_mcgonagall@hogwarts.com','45787885','Mumbai'),
(11,'Rubeus','Hagrid','rubeus_hagrid@hogwarts.com','45787885','Pune');

SELECT*FROM customer;

-- product TABLE

INSERT INTO product
VALUES
(1,'Tablet','Acer','40000'),
(2,'Smartphone','Google','60000'),
(3,'Fitness Tracker','Fitbit','3500'),
(4,'Desktop','Lenovo','55000'),
(5,'Headphones','Sony','1500'),
(6,'Tablet','Asus','35000'),
(7,'Graphics Card','Nvidia','80000'),
(8,'Desktop','Dell','25000'),
(9,'Fitness Tracker','Garmin','30000'),
(10,'Laptop','Acer','48000'),
(11,'Printer','Canon','12000');

select * from product;
-- ORDERS TABLE

INSERT INTO orders VALUES
```

```
(1, '2024-02-27', 50000,1),
(2, '2024-02-28', 55000,2),
(3, '2024-03-01', 4500,3),
(4, '2024-03-02', 45670,4),
(5, '2024-03-03', 2056,5),
(6, '2024-03-04', 450000,6),
(7, '2024-03-05', 70000,7),
(8, '2024-03-06', 30500,8),
(9, '2024-03-07', 40000,9),
(10, '2024-03-08', 50050,10),
(11,'2024-03-08', 50050,11);

select * from orders;
-- order_detail TABLE

INSERT INTO order_detail
VALUES
(101, 1, 1, 5),
(102, 2, 2, 3),
(103, 3, 3, 7),
(104, 4, 4, 2),
(105, 5, 5, 6),
(106, 6, 6, 1),
(107, 7, 7, 4),
(108, 8, 8, 2),
(109, 9, 9, 8),
(110, 10, 10, 5),
(120, 11, 11, 5);
```

```
select * from order_detail;
-- INVENTORY TABLE

INSERT INTO inventory VALUES
(1, 1, 50, '2024-02-27'),
(2, 2, 30, '2024-02-28'),
(3, 3, 70, '2024-02-29'),
(4, 4, 20, '2024-03-01'),
(5, 5, 60, '2024-03-02'),
(6, 6, 10, '2024-03-03'),
(7, 7, 45, '2024-03-04'),
(8, 8, 25, '2024-03-05'),
(9, 9, 80, '2024-03-06');

select * from inventory;
-- Task-2:

-- 1. Write an SQL query to retrieve the names and emails of all customers.
select first_name,email
from customer;

-- 2. Write an SQL query to list all orders with their order dates and corresponding customer names.
select c.first_name,o.order_date
from customer c,orders o
where c.id=o.customer_id;
```

-- 3. Write an SQL query to insert a new customer record into the "Customers" table.

-- Include customer information such as name, email, and address.

```
insert into customer(first_name,last_name,email,phone,address)

values

('micheal','s','micheal@gmail.com','1234','gujarat');
```

-- 4. Write an SQL query to update the prices of all electronic gadgets in the "product" table by increasing them by 10%.

```
update product

set price=price+(price*0.1)

where id=3;
```

-- 5. Write an SQL query to delete a specific order and its associated order details from the"Orders" and "OrderDetails" tables.

-- Allow users to input the order ID as a parameter.

```
delete from order_detail

where orders_id=3;


delete from orders

where id=3;
```

-- 6. Write an SQL query to insert a new order into the "Orders" table.

-- Include the customer ID,order date, and any other necessary information.

```
insert into orders(order_date,total_amount,customer_id)

values

('2024.2.20',2500,4);
```

-- 7. Write an SQL query to update the contact information (e.g., email and address) of a specific customer in the "Customers" table.

-- Allow users to input the customer ID and new contact information.

update customer

set email='jason@gmail.com' , address='delhi'

where id=6;

-- 9. Write an SQL query to delete all orders and their associated order details for a specific customer from the "Orders" and "OrderDetails" tables.

-- Allow users to input the customer ID as a parameter.

delete from order_detail

where orders_id in (select id from orders where customer_id =7);

delete from orders

where customer_id=3;

-- 10. Write an SQL query to insert a new electronic gadget product into the "product" table,including product name, category, price, and any other relevant details.

insert into product(product_name,description,price)

values

('Acer','desktop',50000);

-- Task-3: using joins

-- 1. Write an SQL query to retrieve a list of all orders along with customer information (e.g.,customer name) for each order.

select c.first_name,o.order_date,o.total_amount

from customer c join orders o on c.id=o.customer_id;

-- 2. Write an SQL query to find the total revenue generated by each electronic gadget product. Include the product name and the total revenue.

```
select p.product_name,sum(o.total_amount) as Total_revenue
from orders o join order_detail od on o.id=od.order_id join product p on
p.id=od.product_id
group by p.id;

-- 3. Write an SQL query to list all customers who have made at least one purchase.
-- Include their names and contact information.
select distinct c.first_name,c.email
from customer c join orders o on c.id=o.customer_id ;

-- 4. Write an SQL query to find the most popular electronic gadget, which is the one with the highest total quantity ordered.
-- Include the product name and the total quantity ordered.
select p.product_name,od.quantity
from product p join order_detail od on p.id=od.product_id
order by quantity desc
limit 1;

-- 5. Write an SQL query to retrieve a list of electronic gadgets along with their corresponding categories.
select product_name,description
from product;

-- 6. Write an SQL query to calculate the average order value for each customer.
-- Include the customer's name and their average order value.
select c.first_name,avg(total_amount)
from customer c
join orders o on c.id=o.customer_id
group by o.customer_id;
```

```
-- 7. Write an SQL query to find the order with the highest total revenue.
-- Include the order ID,customer information, and the total revenue.
select od.order_id,sum(total_amount) as total_revenue
from customer c join orders o on c.id=o.customer_id join order_detail od on
od.order_id=o.id
group by od.order_id
order by total_revenue desc
limit 1;

-- 8. Write an SQL query to list electronic gadgets and the number of times each product has been ordered.
select p.product_name,count(od.id) as Order_count
from order_detail od join product p on od.product_id=p.id
group by od.product_id;

-- 9. Write an SQL query to find customers who have purchased a specific electronic gadget product.
-- Allow users to input the product name as a parameter.
select c.first_name ,c.email
from customer c join orders o on c.id=o.customer_id join order_detail od on
od.order_id=o.id join product p on od.product_id=p.id
where p.id=2;

-- 10. Write an SQL query to calculate the total revenue generated by all orders placed within a specific time period.
-- Allow users to input the start and end dates as parameters.
select od.order_id,sum(total_amount) as total_revenue
from customer c join orders o on c.id=o.customer_id join order_detail od on
```

```
od.order_id=o.id
where o.order_date between '2023-12-31' and '2024-1-31'
group by od.order_id;

-- Task-4: using sub-queries

-- 1. Write an SQL query to find out which customers have not placed any orders.
select *
from customer
where id not in (select customer_id
                                    from orders);

-- 2. Write an SQL query to find the total number of product available for sale.
select *
from product
where id in (select product_id
                                from inventory
        where quantity_in_stock is not null);

-- 3. Write an SQL query to calculate the total revenue generated by TechShop.
select sum(total_amount) as total_revenue
from orders;

-- 4. Write an SQL query to calculate the average quantity ordered for product in a
specific category Allow users to input the category name as a parameter.
select (sum(quantity)/(select count(id)
                                    from product
                where description="Smartphone")) as Average_quantity_mobile
```

```
from order_detail
where product_id in (select id from product p where description="Smartphone");

select *
from product;
select *
from order_detail;

-- 5. Write an SQL query to calculate the total revenue generated by a specific customer.
-- Allow users to input the customer ID as a parameter.
select sum(total_amount) as Revenue_From_1 from orders
where customer_id in (select id
                                    from customer
        where id=8);

-- 7. Write an SQL query to find the customer who has spent the most money (highest total revenue) on electronic gadgets.
-- List their name and total spending.
select c.first_name
from customer c
where id in (select customer_id
                        from orders
    where total_amount=(select max(total_amount)
                                                from orders));

-- 8. Write an SQL query to find the total number of orders placed by each customer and list their names along with the order count.
select first_name,t.*
from customer c join(select o.customer_id ,count(o.id)
```

```
                                        from orders o group by o.customer_id)
as t on t.customer_id=c.id;
```