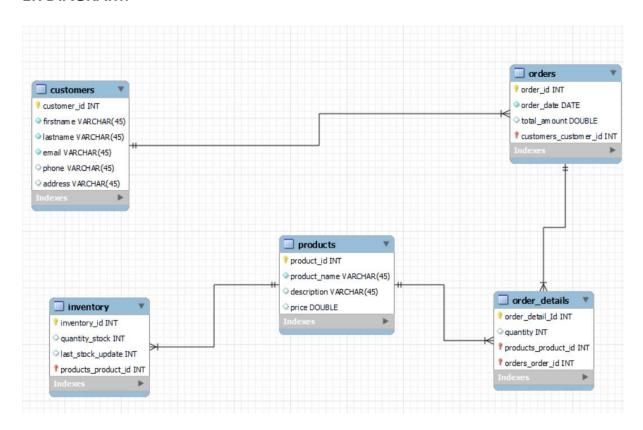
## **ELECTRONIC GADGET SHOP**

## **ER DIAGRAM:**



## **TASK - 1**

```
`firstname` VARCHAR(45) NOT NULL,
 'lastname' VARCHAR(45) NOT NULL,
 'email' VARCHAR(45) NOT NULL,
 `phone` VARCHAR(45) NULL,
 `address` VARCHAR(45) NULL,
 PRIMARY KEY ('customer_id'))
ENGINE = InnoDB;
-- Table `techshop`.`products`
CREATE TABLE IF NOT EXISTS `techshop`.`products` (
 `product_id` INT NOT NULL AUTO_INCREMENT,
 `product_name` VARCHAR(45) NOT NULL,
 'description' VARCHAR(45) NULL,
 'price' DOUBLE NULL,
 PRIMARY KEY ('product_id'))
ENGINE = InnoDB;
-- Table `techshop`.`orders`
CREATE TABLE IF NOT EXISTS 'techshop'. 'orders' (
 `order_id` INT NOT NULL AUTO_INCREMENT,
 `order_date` DATE NOT NULL,
 `total_amount` DOUBLE NULL,
 `customers_customer_id` INT NOT NULL,
 PRIMARY KEY ('order_id', 'customers_customer_id'),
 INDEX `fk_orders_customers_idx` (`customers_customer_id` ASC) ,
 CONSTRAINT `fk_orders_customers`
  FOREIGN KEY ('customers_customer_id')
```

```
REFERENCES `techshop`.`customers` (`customer_id`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `techshop`.`order details`
CREATE TABLE IF NOT EXISTS 'techshop'. 'order_details' (
 `order_detail_Id` INT NOT NULL AUTO_INCREMENT,
 'quantity' INT NULL,
 `products_product_id` INT NOT NULL,
 `orders_order_id` INT NOT NULL,
 PRIMARY KEY ('order_detail_Id', 'products_product_id', 'orders_order_id'),
 INDEX 'fk order details products1 idx' ('products product id' ASC),
 INDEX `fk_order_details_orders1_idx` (`orders_order_id` ASC),
 CONSTRAINT `fk_order_details_products1`
  FOREIGN KEY ('products_product_id')
  REFERENCES 'techshop'.'products' ('product_id')
  ON DELETE NO ACTION
 ON UPDATE NO ACTION,
 CONSTRAINT `fk_order_details_orders1`
 FOREIGN KEY ('orders_order_id')
  REFERENCES 'techshop'.'orders' ('order_id')
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `techshop`.`inventory`
```

```
CREATE TABLE IF NOT EXISTS 'techshop'. 'inventory' (
 'inventory id' INT NOT NULL AUTO INCREMENT,
 'quantity stock' INT NULL,
 `last_stock_update` INT NULL,
 `products_product_id` INT NOT NULL,
 PRIMARY KEY ('inventory_id', 'products_product_id'),
 INDEX `fk_inventory_products1_idx` (`products_product_id` ASC) ,
 CONSTRAINT 'fk inventory products1'
  FOREIGN KEY ('products_product_id')
  REFERENCES 'techshop'.'products' ('product id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
use techshop;
show tables;
desc customers;
desc inventory;
desc order details;
desc orders;
desc products;
insert into customers(firstname,lastname,email,phone,address)
values('dolu','kappor','dolu@gmail.com','8745961254','mumbai')
,('bolu','bhatt','bolu@gmail.com','8745961254','mumbai'),('chutki','shetty','chutki@gmail.co
m','9745964254','chennai'),
('chotta','bheem','chotta@gmail.com','7548548796','chennai');
select * from customers;
insert into products(product name, description, price)
values('motherboard','computer',3500),('speaker','4d effect',6500),
('headphones', 'wired', 1000), ('cameras', 'digital', 7500);
```

```
select * from products;
insert into orders(order_date,total_amount,customers_customer_id) values('2024-01-08',3500,1),('2024-03-05',6000,4),

('2024-04-14',8500,1),('2024-02-11',7000,3),('2024-01-21',14000,2);
select * from orders;
insert into inventory(quantity_stock,last_stock_update,products_product_id)
values(40,25,2),(75,35,1),(50,15,3),(60,12,4),(85,30,2);
select * from inventory;
insert into order_details(quantity,products_product_id,orders_order_id)
values(3,2,4),(5,1,3),(1,3,5),(2,4,2),(3,1,4);
select * from order_details;
```

#### TASK - 2

## #1.sql query to retrieve the names and emails of all customers

select firstname, lastname, email from customers;

#### #2.query to list all orders with their order dates and corresponding customer names

```
select o.order_id,o.order_date,c.firstname
from orders o,customers c
where c.customer_id=o.customers_customer_id;
```

#3.query to insert a new customer record into the customers table.Include customer information such as name,email, and address.

```
insert into customers(firstname,lastname,email,phone,address) values("kaliya","bhai","kaliya@gmail.com","7384569213","bangalore");
```

#4.query to update the prices od all eletectronic gadgets in the products table by increasing them by 10%

```
update products
set price=price+(price*0.1);
```

## #5.query to inserrt a new order into the orders table.

insert into orders(order\_date,total\_amount,customers\_customer\_id) values("2024-03-15",2400,3);

## #6.update the contact information of a secific customer

```
update customers
set phone="9944022631"
where customer_id=3;
```

## #7.insert new electronic product into product table

insert into products(product\_name,description,price) values("air pods","wireless",3500);

## #8.calculate no of orders placed by each customers

```
select customers_customer_id,count(customers_customer_id)
from orders
group by customers_customer_id;
```

## **TASK - 3**

## #1.list of all orders along with customer info

```
select o.order_id,o.order_date,c.firstname,c.phone from orders o join customers c on c.customer_id=o.order_id;
```

## #2.total revenue generated by each electronic gadget

```
select o.products_product_id,p.product_name,sum(o.quantity)*p.price as total_revenue from order_details o join products p

on p.product_id=o.order_detail_id

group by products_product_id;
```

## #3.customers who have made atleast 1 purchase

```
select c.firstname,count(o.order_id) as orders
from customers c join orders o
on c.customer_id=o.order_id
group by order_id
having orders>=1;
```

## #4.most popular gadget with highest quantity order

```
select p.product_name,o.quantity
from products p join order_details o
on p.product_id=o.products_product_id
order by o.quantity desc
limit 1;
```

## #5.retrieve gadgets with their description

select product\_name, description from products;

## #6.customer name with average order value

```
select c.firstname,avg(o.total_amount)
from customers c join orders o
on c.customer_id=o.customers_customer_id
group by c.customer_id;
```

## #7.order with highest total revenue

```
select o.products_product_id,p.product_name,sum(o.quantity)*p.price as total_revenue from order_details o join products p
on p.product_id=o.order_detail_id
group by products_product_id
order by total_revenue desc
limit 1;
```

## #8. total revenue generated by all orders between specific time period

select sum(total\_amount) as tot\_revenue from orders where order\_date between "2024-02-01" and "2024-03-31";

## #9.customer along with purchased gadgets

select c.firstname,p.product\_name

from customers c,orders o,order\_details r,products p

where c.customer\_id=o.customers\_customer\_id and o.order\_id=r.orders\_order\_id and r.products\_product\_id=p.product\_id;

## <u>TASK - 4</u>

## #1.customers have not placed any orders

select firstname from customers where customer\_id not in(select customers\_customer\_id from orders);

## #2.total no of products that are available for sale

```
select * from products;
select product_name from products where product_id in
(select products_product_id from inventory where last_stock_update>0);
```

## #3.total revenue by tech shop

select(select sum(total\_amount) from orders) as tot\_revenue;

## #4.customers who have placed most orders

```
select * from customers;
select * from orders;
-- alternative
```

```
select customers_customer_id,count(order_id) as most from orders group by
customers_customer_id
order by most desc limit 1;
```

# #5.total no of orders placed by each customer and list their names along with the order count

```
select c.firstname,o.order_id,count(o.order_id)
from customers c join orders o
on c.customer_id=o.customers_customer_id
group by c.firstname;
```

## #6.customer who spent most money

```
select c.firstname,sum(o.total_amount) as revenue from customers c join orders o on c.customer_id=o.customers_customer_id group by c.firstname order by revenue desc;
```