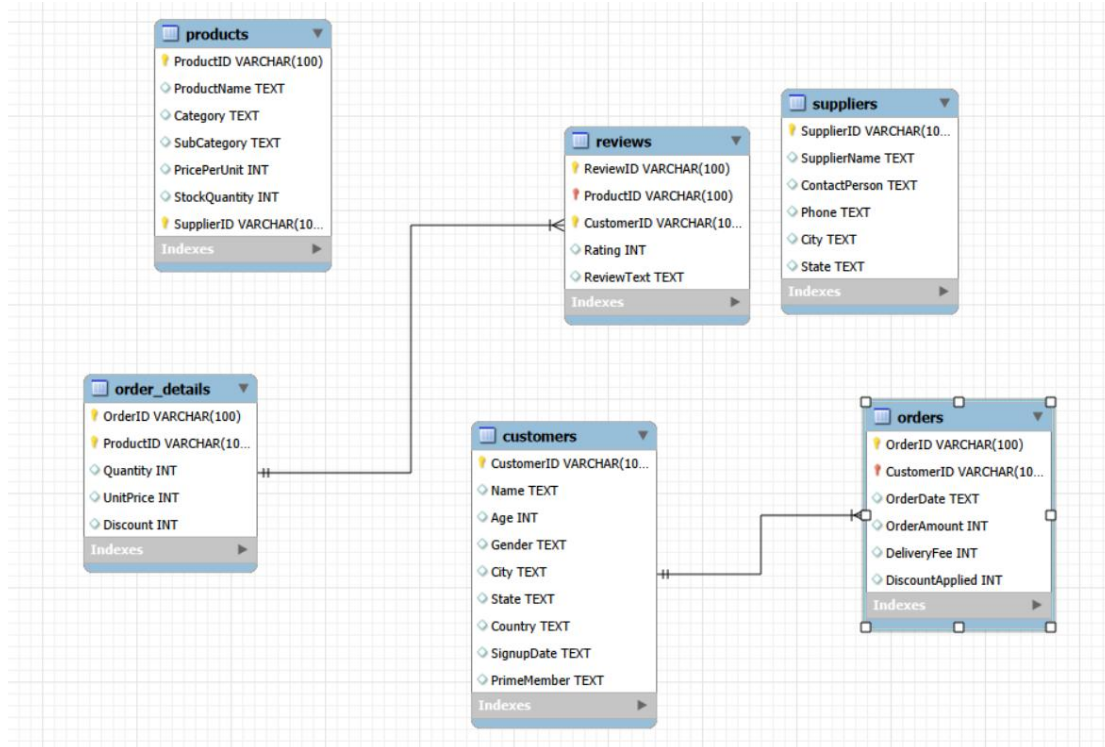
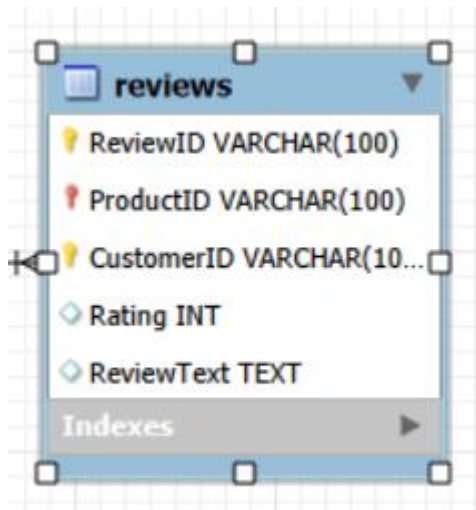


Sql project

Task 1



Task 2



Task 3

- Retrieve all customers from a specific city.



```
select * from amazon.customers where city='austinton';
```

- Fetch all products under the "Fruits" category.

```
select ProductName,Category from amazon.products where category='fruits';
```

Task4

- CustomerID as the primary key.

Column Name	Datatype	PK	NN	UQ
 CustomerID	VARCHAR(100)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 Name	TEXT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Ensure Age cannot be null and must be greater than 18.

```
alter table amazon.customers  
modify age int not null;  
alter table amazon.customers  
add constraint check ('age'>18);
```

- Add a unique constraint for Name.

```
1  ALTER TABLE `amazon`.`customers`  
2  ADD UNIQUE INDEX `Name_UNIQUE` (`Name` ASC) VISIBLE;  
3  ;  
4
```

Task5

Insert 3 new rows into the Products table using INSERT statements.

```
insert into amazon.products
(productid,productname,category,subcategory,priceperunit,stockquantity,supplierid) values
('dfghjkui','Ok Snack','Fruits','Sub-Dairy-1',515,654,'rtyujijih'),
('tyfigiuh','Exist Vegetable','Bakery','Sub-Fruits-2',546,646,'ctguihii'),
('guihioj','Local Fruit','Vegetables','Sub-Meat-4',559,846,'busiug');
```

Task6

Update the stock quantity of a product where ProductID matches a specific ID.

```
select distinct productid ,StockQuantity from amazon.products order by ProductID;
```

Task 7

Delete a supplier from the Suppliers table where their city matches a specific value.

```
delete from amazon.suppliers where city='South Ana';
```

Task 8

○ Add a CHECK constraint to ensure that ratings in the Reviews table are between 1 and 5.

```
alter table amazon.reviews add constraint rech check (rating between 1 and 5);
```

- **Add a DEFAULT constraint for the PrimeMember column in the Customers table (default value: "No").**

```
alter table amazon.customers alter column primemember set default 'no';
```

Task 9

- **WHERE clause to find orders placed after 2024-01-01.**

```
select * from amazon.orders where orderdate>01-01-2024;
```

- **HAVING clause to list products with average ratings greater than 4.**

```
select distinct(productid),avg(rating) from amazon.reviews group by productid having avg(rating)>4;
```

- **GROUP BY and ORDER BY clauses to rank products by total sales.**

```
select rank() over(order by sum(orderamount)desc) as rank_no,orderid,sum(orderamount) as total_sales FROM amazon.orders group by orderid order by total_sales desc;
```

Task 10

- 1. Calculate each customer's total spending.**

```
select customerid,sum(orderamount) as total_spending from amazon.orders group by customerid;
```

- 2. Rank customers based on their spending.**

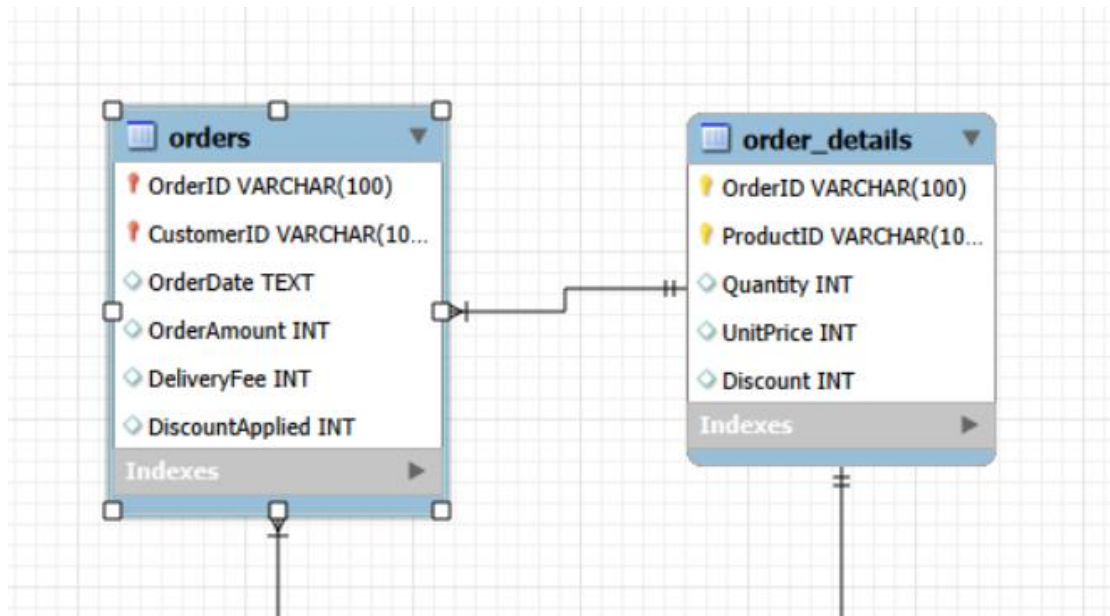
```
select rank()over(order by sum(orderamount)desc) as rank_no,customerid,sum(orderamount) as total_spending from amazon.orders group by customerid order by total_spending desc;
```

- 3. Identify customers who have spent more than ₹5,000.**

```
select customerid,sum(orderamount) as total_spending from amazon.orders where OrderAmount>5000 group by CustomerID order by total_spending desc;
```

Task 11

- Join the Orders and OrderDetails tables to calculate total revenue per order.



- Identify customers who placed the most orders in a specific time period.

```
select distinct (CustomerID),orderid from amazon.orders order by customerid desc limit 1;
```

- Find the supplier with the most products in stock.

```
select StockQuantity,SupplierID from amazon.products order by StockQuantity desc limit 1;
```