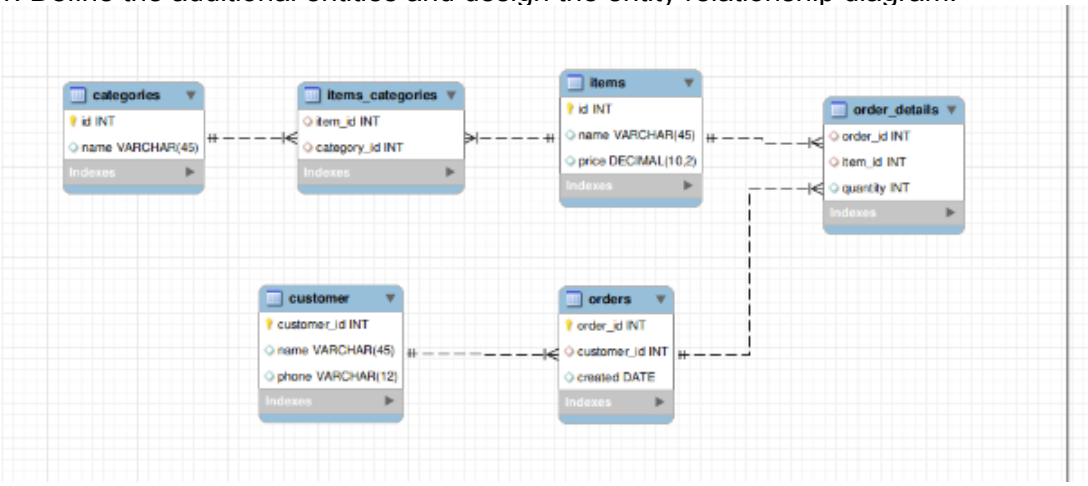
Muhammad Hafiz Tsalavin
GBE01099

1. Define the additional entities and design the entity relationship diagram.



2. Create tables that represent the entities

HW.sql

```sql
CREATE TABLE customer (
    customer_id INT(2) AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(50) NOT NULL,
    phone VARCHAR(12) NOT NULL
)

CREATE TABLE orders(
    order_id INT AUTO_INCREMENT PRIMARY KEY,
    customer_id INT NOT NULL,
    create_date DATE NOT NULL,
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);

CREATE TABLE order_details (
    order_id INT NOT NULL,
    item_id INT NOT NULL,
    quantity INT NOT NULL,
    FOREIGN KEY (item_id) REFERENCES items(id),
    FOREIGN KEY (order_id) REFERENCES orders(order_id)
)
```

3. Insert minimal 5 dummy records for each entity

```
21
22  INSERT INTO customer(name, phone)
23  VALUES ('Budiyawan', '+6212345678'), ('Mary Jones', '+6287654321'), ('Budiyawan', '+6289753124');
24
25  INSERT INTO orders(customer_id, create_date)
26  VALUES (1, '2020-10-10' ),(2, '2020-10-10' ),(3, '2020-10-10' ),(1, '2020-10-11' ),(2, '2020-10-11' );
27
28  INSERT INTO order_details(order_id, item_id, quantity)
29  VALUES (1, 1, 1),(1, 2, 1),
30         (2, 3, 1),(2, 4, 1),
31         (3, 3, 1),(3, 8, 1),
32         (4, 1, 1),(4, 2, 1),
33         (5, 6, 1),(5, 4, 1);
34
```

4. Display data which contains all orders information, with their respective customer name and phone informations.

```
mysql>
mysql> SELECT orders.order_id as "order ID",
    ->     orders.create_date as "order data",
    ->     customer.name as "Customer Name",
    ->     customer.phone as "Customer Phone",
    ->     sum(items.price) as total
    -> from orders
    ->     left join customer on orders.customer_id = customer.customer_id
    ->     left join order_details on orders.order_id = order_details.order_id
    ->     left join items on order_details.item_id = items.id
    -> group by orders.order_id;
+----------+------------+---------------+----------------+-------+
| order ID | order data | Customer Name | Customer Phone | total |
+----------+------------+---------------+----------------+-------+
|        1 | 2020-10-10 | Budiyawan     | +6212345678    | 25000 |
|        2 | 2020-10-10 | Mary Jones    | +6287654321    | 58000 |
|        3 | 2020-10-10 | Budiyawan     | +6289753124    | 55000 |
|        4 | 2020-10-11 | Budiyawan     | +6212345678    | 25000 |
|        5 | 2020-10-11 | Mary Jones    | +6287654321    | 54000 |
+----------+------------+---------------+----------------+-------+
5 rows in set (0.04 sec)

mysql>
```

link github:
https://github.com/hafiztsalavin/GenerasiGigih/tree/master/Modul_2/Session_3