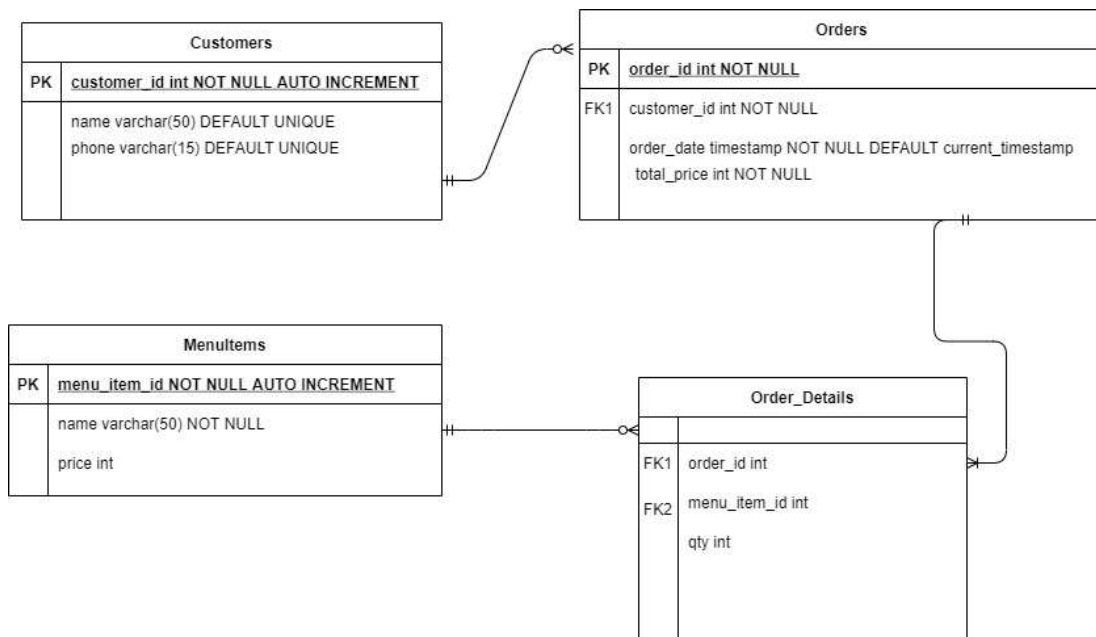Homework Module 2 – Session – 3

Nama : Ekki Syam Sugiardi – GBE01051

● Define the additional entities and design the entity relationship diagram

● Create tables that represent the entities

```
+-------------+-------------+------+-----+---------+----------------+
| Field       | Type        | Null | Key | Default | Extra          |
+-------------+-------------+------+-----+---------+----------------+
| customer_id | int         | NO   | PRI | NULL    | auto_increment |
| name        | varchar(50) | YES  | UNI | NULL    |                |
| phone       | varchar(15) | YES  | UNI | NULL    |                |
+-------------+-------------+------+-----+---------+----------------+
```

```
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
+--------------+-------------+------+-----+---------+----------------+
| menu_item_id | int         | NO   | PRI | NULL    | auto_increment |
| name         | varchar(50) | NO   |     | NULL    |                |
| price        | int         | YES  |     | NULL    |                |
+--------------+-------------+------+-----+---------+----------------+
```

```
+--------------+------+------+-----+---------+-------+
| Field        | Type | Null | Key | Default | Extra |
+--------------+------+------+-----+---------+-------+
| order_id     | int  | YES  | MUL | NULL    |       |
| menu_item_id | int  | YES  | MUL | NULL    |       |
| qty          | int  | NO   |     | NULL    |       |
+--------------+------+------+-----+---------+-------+
```

```
+-------------+-----------+------+-----+-------------------+-------------------+
| Field       | Type      | Null | Key | Default           | Extra             |
+-------------+-----------+------+-----+-------------------+-------------------+
| order_id    | int       | NO   | PRI | NULL              | auto_increment    |
| customer_id | int       | NO   |     | NULL              |                   |
| order_date  | timestamp | NO   |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
| total_price | int       | YES  |     | NULL              |                   |
+-------------+-----------+------+-----+-------------------+-------------------+
```

- Display data which contains all orders information, with their respective customer name and phone information

```
+----------+---------------------+-------+--------------+-------+---------------------------------+
| order_id | order_date          | name  | phone        | Total | Item bought                     |
+----------+---------------------+-------+--------------+-------+---------------------------------+
|        1 | 2021-07-17 20:17:25 | Ekki  | +62 123456789 | 27000 | Nasi Goreng Gila,Ice Water      |
|        2 | 2021-07-17 20:17:25 | Ekki  | +62 123456789 | 58000 | Spaghetti,Green Tea Latte       |
|        3 | 2021-07-17 20:17:25 | Zahra | +62 987654321 | 55000 | Spaghetti,Orange Juice          |
|        4 | 2021-07-17 20:17:25 | Ando  | +62 123123123 | 27000 | Nasi Goreng Gila,Ice Water      |
|        5 | 2021-07-17 20:17:25 | Ekki  | +62 123456789 | 54000 | Vanilla Ice Cream,Green Tea Latte |
+----------+---------------------+-------+--------------+-------+---------------------------------+
```

SQL QUERY

```
mysql> SELECT orders.order_id, orders.order_date, customer.name, customer.phone, orders.total_price AS "Total", GROUP_CONCAT(menuitems.name) AS "Item bought" FROM customer
    -> JOIN orders ON orders.customer_id = customer.customer_id
    -> JOIN order_details ON orders.order_id = order_details.order_id
    -> JOIN menuitems ON order_details.menu_item_id = menuitems.menu_item_id
    -> GROUP BY orders.order_id;
```

SELECT orders.order_id, orders.order_date, customer.name, customer.phone, orders.total_price AS "Total", GROUP_CONCAT(menuitems.name) AS "Item bought" FROM customer

JOIN orders ON orders.customer_id = customer.customer_id

JOIN order_details ON orders.order_id = order_details.order_id

JOIN menuitems ON order_details.menu_item_id = menuitems.menu_item_id

GROUP BY orders.order_id;