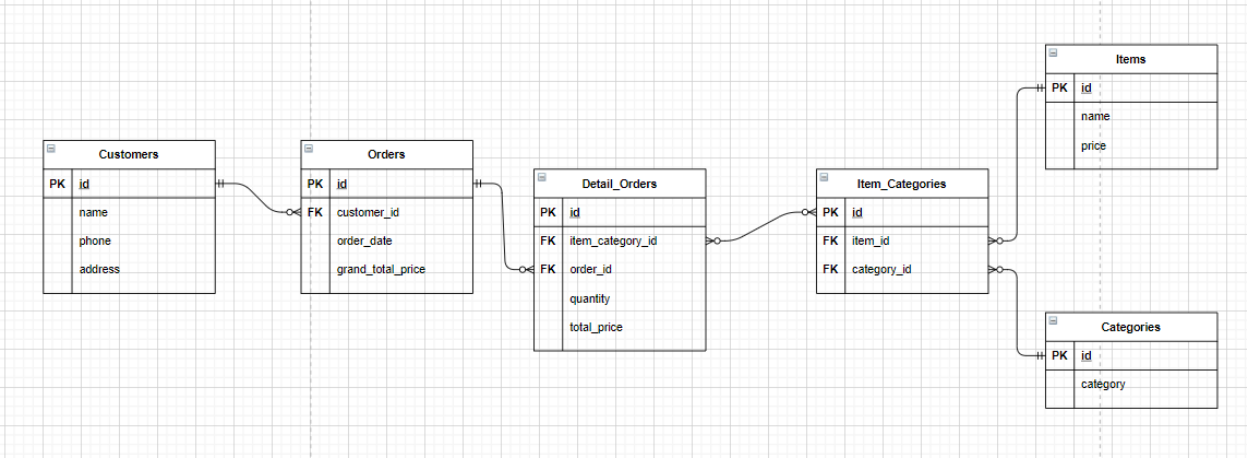
ID : GBE01158

Nama : Zuhair Yahya




```
    -> GROUP BY o.id;
+----+---------------------+---------------+-----------------+--------+-----------------------+
| id | order date          | customer name | customer phone  | total  | items bought          |
+----+---------------------+---------------+-----------------+--------+-----------------------+
|  1 | 2021-11-12 10:10:10 | Udin          | +6281298765438  | 100000 | Nasi Padang           |
|  2 | 2020-10-09 11:11:11 | Ucok          | +6281298364436  | 620000 | Nasi Kucing, Starbucks |
|  3 | 2021-05-02 12:12:12 | Mahmud        | +6281228735434  | 300000 | Starbucks             |
|  4 | 2020-04-01 13:13:13 | Ninu          | +6281298785335  |  50000 | Pancong               |
|  5 | 2021-01-07 14:14:14 | Nunu          | +6281208715437  | 500000 | Nasi Uduk             |
+----+---------------------+---------------+-----------------+--------+-----------------------+
5 rows in set (0.01 sec)
```

CREATE TABLE items (

id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,

name VARCHAR(255) NOT NULL,

price INT NOT NULL

);

CREATE TABLE categories (

id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,

category VARCHAR(50) NOT NULL UNIQUE

```
);

CREATE TABLE item_categories (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   category_id INT NOT NULL,
   FOREIGN KEY (category_id) REFERENCES categories(id),
   item_id INT NOT NULL,
   FOREIGN KEY (item_id) REFERENCES items(id)
);

CREATE TABLE customers (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   name VARCHAR(255) NOT NULL,
   phone CHAR(12) NOT NULL UNIQUE,
   address VARCHAR(255) NOT NULL
);

CREATE TABLE orders (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   customer_id INT NOT NULL,
   FOREIGN KEY (customer_id) REFERENCES customers(id),
   order_date DATETIME NOT NULL,
   grand_total_price INT NOT NULL
);

CREATE TABLE detail_orders (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   item_category_id INT NOT NULL,
   FOREIGN KEY (item_category_id) REFERENCES item_categories(id),
```

```
    order_id INT NOT NULL,
    FOREIGN KEY (order_id) REFERENCES orders(id),
    quantity INT NOT NULL,
    total_price INT NOT NULL
);

INSERT INTO items (id, name, price) VALUES (1, 'Nasi Padang', 20000);
INSERT INTO items (id, name, price) VALUES (2, 'Nasi Kucing', 5000);
INSERT INTO items (id, name, price) VALUES (3, 'Starbucks', 50000);
INSERT INTO items (id, name, price) VALUES (4, 'Pancong', 7000);
INSERT INTO items (id, name, price) VALUES (5, 'Nasi Uduk', 10000);

SELECT id, name, price FROM items;
SELECT * FROM items;

INSERT INTO categories (id, category) VALUES (1, 'Makanan'), (2, 'Minuman');
SELECT * FROM categories;
INSERT INTO item_categories (item_id, category_id) VALUES (1, 1), (2, 1), (3, 2), (4, 1), (5, 1);
SELECT * FROM item_categories;

SELECT items.id, items.name, item_categories.category_id FROM items JOIN item_categories ON
items.id = item_categories.item_id;

SELECT categories.*, GROUP_CONCAT(items.name) AS items, MAX(items.price) AS price FROM
categories LEFT JOIN item_categories ON categories.id = item_categories.category_id JOIN items ON
item_categories.item_id = items.id GROUP BY categories.id;

INSERT INTO customers (id, name, phone, address) VALUES
(1, 'Udin', 081298765438, 'Jakarta'),
(2, 'Ucok', 081298364436, 'Bekasi'),
```

```
(3, 'Mahmud', 081228735434, 'Karawang'),
(4, 'Ninu', 081298785335, 'Purwokerto'),
(5, 'Nunu', 081208715437, 'Jambi');


INSERT INTO orders (customer_id, item_category_id, order_date, total_price, quantity) VALUES
(1, 1, '2021-11-12 10:10:10', 100000, 2),
(2, 2, '2020-10-09 11:11:11', 20000, 3),
(3, 3, '2021-05-02 12:12:12', 300000, 10),
(4, 4, '2020-04-01 13:13:13', 50000, 9),
(5, 5, '2021-01-07 14:14:14', 500000, 7);

SELECT * FROM orders o
INNER JOIN customers c ON o.customer_id = c.id
INNER JOIN detail_orders do ON do.order_id = o.id
INNER JOIN item_categories ic ON ic.id = do.item_category_id
INNER JOIN items i ON ic.item_id = i.id
INNER JOIN categories ca ON ic.category_id = ca.id;


SELECT o.id, o.order_date AS 'order date', c.name AS 'customer name', c.phone AS 'customer phone',
SUM(do.total_price) AS total, GROUP_CONCAT(i.name SEPARATOR ', ') AS 'items bought' FROM orders o
INNER JOIN customers c ON o.customer_id = c.id
INNER JOIN detail_orders do ON do.order_id = o.id
INNER JOIN item_categories ic ON ic.id = do.item_category_id
INNER JOIN items i ON ic.item_id = i.id
INNER JOIN categories ca ON ic.category_id = ca.id
GROUP BY o.id;
```

```
INSERT INTO detail_orders (item_category_id, order_id, quantity, total_price) VALUES
(1, 1, 2, 100000),
(2, 2, 3, 20000),
(3, 3, 10, 300000),
(4, 4, 9, 50000),
(5, 5, 7, 500000);

INSERT INTO orders (customer_id, order_date, grand_total_price) VALUES
(1, '2021-11-12 10:10:10', 200000),
(2, '2020-10-09 11:11:11', 50000),
(3, '2021-05-02 12:12:12', 3000000),
(4, '2020-04-01 13:13:13', 450000),
(5, '2021-01-07 14:14:14', 3500000);

INSERT INTO detail_orders (item_category_id, order_id, quantity, total_price) VALUES
(3, 2, 2, 600000);


SELECT * FROM orders INNER JOIN detail_orders ON orders.id = detail_orders.order_id;

UPDATE customers SET phone='+6281298765438' WHERE id=1;
UPDATE customers SET phone='+6281298364436' WHERE id=2;
UPDATE customers SET phone='+6281228735434' WHERE id=3;
UPDATE customers SET phone='+6281298785335' WHERE id=4;
UPDATE customers SET phone='+6281208715437' WHERE id=5;
```