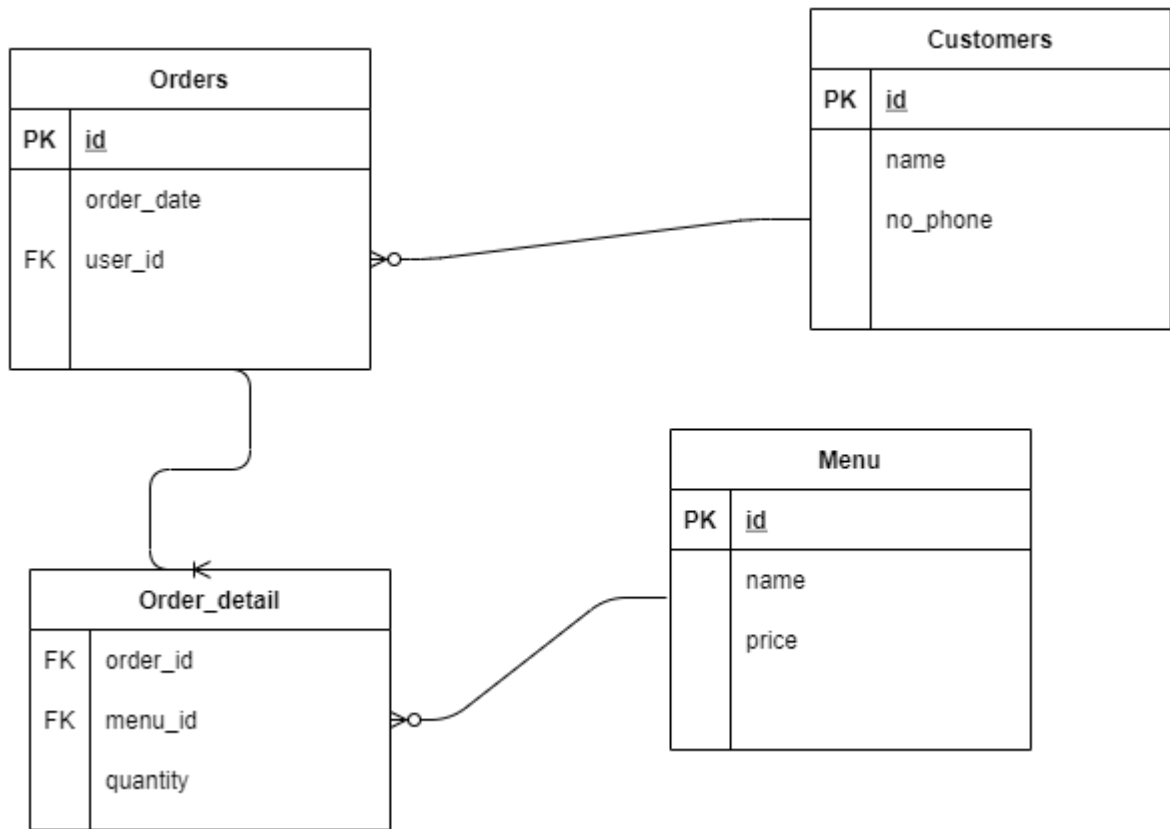


HOMWORK MODULE 2 SESSION 3

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



2. Create tables that represent the entities

#Create table Customers

```
create table customers(
```

```
id int NOT NULL AUTO_INCREMENT,
```

```
name varchar(30),
```

```
no_phone varchar(30),
```

```
PRIMARY KEY(id)
```

```
);
```

```
MariaDB [FOMS]> describe customers;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(30)	YES		NULL	
no_phone	varchar(30)	YES		NULL	

```
3 rows in set (0.015 sec)
```

#Create table Menu

```
create table menu(
id int NOT NULL AUTO_INCREMENT,
name varchar(30),
price int,
PRIMARY KEY(id)
);
```

```
MariaDB [FOMS]> describe menu;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(30)	YES		NULL	
price	int(11)	YES		NULL	

```
3 rows in set (0.033 sec)
```

#Create table Orders

```
create table orders(
id int NOT NULL AUTO_INCREMENT,
order_date date,
user_id int,
PRIMARY KEY(id)
```

);

```
MariaDB [FOMS]> describe orders;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
order_date	date	YES		NULL	
user_id	int(11)	YES	MUL	NULL	

```
3 rows in set (0.032 sec)
```

#Create table Order_details

create table order_details(

order_id int,

menu_id int,

quantity int

);

```
MariaDB [FOMS]> describe order_details;
```

Field	Type	Null	Key	Default	Extra
order_id	int(11)	YES	MUL	NULL	
menu_id	int(11)	YES	MUL	NULL	
quantity	int(11)	YES		NULL	

```
3 rows in set (0.032 sec)
```

#FK Table orders

ALTER TABLE orders

ADD FOREIGN KEY(user_id) REFERENCES customers(id);

#FK Table orders_details

ALTER TABLE order_details

```
ADD CONSTRAINT FK_order_id  
  
FOREIGN KEY(order_id) REFERENCES orders(id);
```

```
ALTER TABLE order_details  
  
ADD CONSTRAINT FK_menu_id  
  
FOREIGN KEY(menu_id) REFERENCES menu(id);
```

3. Insert minimal 5 dummy records for each entity

Insert Customers

```
insert into customers(name,no_phone)values('Fahry Fauzan','082116622112');  
  
insert into customers(name,no_phone) values('Budi Rahman','08321234343');  
  
insert into customers(name,no_phone) values('Fauzan Hikmah','081233235654');  
  
insert into customers(name,no_phone) values('Bagoes Rama','082256476543');  
  
insert into customers(name,no_phone) values('Roid Akbar','081256543256');
```

```
MariaDB [FOMS]> select * from customers;  
+-----+-----+-----+  
| id | name       | no_phone |  
+-----+-----+-----+  
| 1 | Fahry Fauzan | 082116622112 |  
| 2 | Budi Rahman  | 08321234343  |  
| 3 | Fauzan Hikmah | 081233235654 |  
| 4 | Bagoes Rama  | 082256476543 |  
| 5 | Roid Akbar   | 081256543256 |  
+-----+-----+-----+  
5 rows in set (0.001 sec)
```

insert Menu

```
insert into menu(name,price) values('Nasi Goreng',12000);  
  
insert into menu(name,price) values('Puding',8000);  
  
insert into menu(name,price) values('Mie Goreng',12000);  
  
insert into menu(name,price) values('Steak',80000);
```

```
insert into menu(name,price) values('Air Mineral',5000);
```

```
MariaDB [FOMS]> select * from menu;
```

id	name	price
1	Nasi Goreng	12000
2	Puding	8000
3	Mie Goreng	12000
4	Steak	80000
5	Air Mineral	5000

```
5 rows in set (0.000 sec)
```

Insert Orders

```
insert into orders(order_date,user_id) values('2021-7-12',1);
```

```
insert into orders(order_date,user_id) values('2021-7-12',2);
```

```
insert into orders(order_date,user_id) values('2021-7-12',3);
```

```
insert into orders(order_date,user_id) values('2021-7-13',4);
```

```
insert into orders(order_date,user_id) values('2021-7-14',5);
```

```
MariaDB [FOMS]> select * from orders;
```

id	order_date	user_id
2	2021-07-12	1
3	2021-07-12	2
4	2021-07-12	3
5	2021-07-13	4
6	2021-07-14	5

```
5 rows in set (0.000 sec)
```

insert Order_details

```
insert into order_details(order_id,menu_id,quantity) values(2,1,1);
```

```
insert into order_details(order_id,menu_id,quantity) values(2,2,1);
```

```
insert into order_details(order_id,menu_id,quantity) values(3,3,1);
```

```

insert into order_details(order_id,menu_id,quantity) values(3,4,1);

insert into order_details(order_id,menu_id,quantity) values(4,5,1);

insert into order_details(order_id,menu_id,quantity) values(4,2,1);

insert into order_details(order_id,menu_id,quantity) values(5,3,1);

insert into order_details(order_id,menu_id,quantity) values(5,2,1);

insert into order_details(order_id,menu_id,quantity) values(6,1,1);

insert into order_details(order_id,menu_id,quantity) values(6,4,1);

```

```

MariaDB [FOMS]> select * from order_details;

```

order_id	menu_id	quantity
2	1	1
2	2	1
3	3	1
3	4	1
4	5	1
4	2	1
5	3	1
5	2	1
6	1	1
6	4	1

```

10 rows in set (0.000 sec)

```

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

```

select order_details.order_id, customers.name as "Customer Name",
customers.no_phone as "Customer Phone",sum(menu.price * order_details.quantity) as
"Total" ,group_concat(menu.name) as "Items Bought"

from order_details

join orders on orders.id = order_details.order_id

join customers on customers.id = orders.user_id

join menu on menu.id = order_details.menu_id

group by order_id;

```

```

MariaDB [FOMS]> select order_details.order_id, customers.name as "Customer Name", customers.no_phone as "Customer Phone",sum(menu.price * order_details.quantity) as "Total",group_concat(menu.name) as "Items Bought"
-> from order_details
-> join orders on orders.id = order_details.order_id
-> join customers on customers.id = orders.user_id
-> join menu on menu.id = order_details.menu_id
-> group by order_id;

```

order_id	Customer Name	Customer Phone	Total	Items Bought
2	Fahry Fauzan	082116622112	20000	Puding,Nasi Goreng
3	Budi Rahman	08321234343	92000	Steak,Mie Goreng
4	Fauzan Hikmah	081233235654	13000	Puding,Air Mineral
5	Bagoes Rama	082256476543	20000	Puding,Mie Goreng
6	Roid Akbar	081256543256	92000	Steak,Nasi Goreng

5 rows in set (0.001 sec)