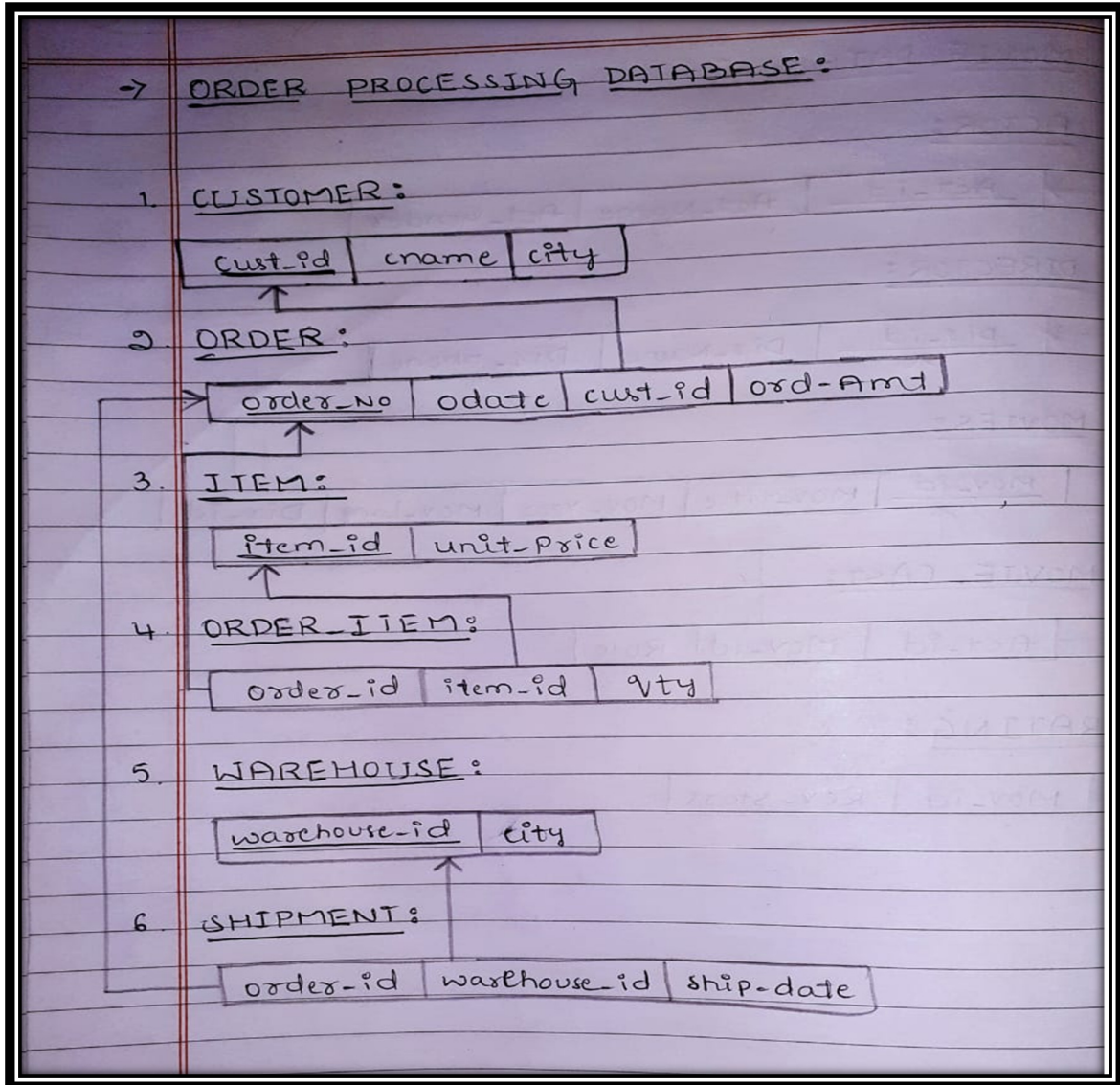


# ORDER PROCESSING DATABASE

## SCHEMA:



## CUSTOMER Table:

```
MariaDB [order_processing]> desc customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int(11)	NO	PRI	NULL	
cname	varchar(30)	YES		NULL	
city	varchar(40)	YES		NULL	

3 rows in set (0.005 sec)

# ORDER PROCESSING DATABASE

## CUSTOMER Table VALUES:

```
MariaDB [order_processing]> select * from customer;
```

cust_id	cnmae	city
101	Asim	Gulbarga
102	Amir	Delhi
103	Mohsin	Mumbai
104	Yaseen	Bangalore
105	Aejaz	Chennai

```
5 rows in set (0.001 sec)
```

## ORDERS Table:

```
MariaDB [order_processing]> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_no	int(11)	NO	PRI	NULL	
odate	date	YES		NULL	
cust_id	int(11)	YES	MUL	NULL	
ord_amt	int(11)	YES		NULL	

```
4 rows in set (0.004 sec)
```

## ORDERS Table VALUES:

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

order_no	odate	cust_id	ord_amt
201	2020-03-08	101	5000
202	2020-03-20	102	1250
203	2020-04-12	103	1549
204	2020-03-06	104	2500
205	2020-04-04	105	4000

```
5 rows in set (0.001 sec)
```

## ITEM Table:

```
MariaDB [order_processing]> desc item;
```

Field	Type	Null	Key	Default	Extra
item_id	int(11)	NO	PRI	NULL	
price	int(11)	YES		NULL	

```
2 rows in set (0.014 sec)
```

# ORDER PROCESSING DATABASE

## ITEM Table VALUES:

```
MariaDB [order_processing]> select * from item;
```

item_id	price
301	2500
302	1250
303	5200
304	8751
305	4512

```
5 rows in set (0.054 sec)
```

## ORDER ITEM Table:

```
MariaDB [order_processing]> desc order_item;
```

Field	Type	Null	Key	Default	Extra
order_no	int(11)	YES	MUL	NULL	
item_id	int(11)	YES	MUL	NULL	
qty	int(11)	YES		NULL	

```
3 rows in set (0.004 sec)
```

## ORDER ITEM Table VALUES:

```
MariaDB [order_processing]> select * from order_item;
```

order_no	item_id	qty
201	301	2
202	302	1
203	303	3
204	304	2
205	305	1

```
5 rows in set (0.001 sec)
```

## WAREHOUSE Table:

```
MariaDB [order_processing]> desc warehouse;
```

Field	Type	Null	Key	Default	Extra
warehouse_id	int(11)	NO	PRI	NULL	
city	varchar(40)	YES		NULL	

```
2 rows in set (0.005 sec)
```

# ORDER PROCESSING DATABASE

## WAREHOUSE Table VALUES:

```
MariaDB [order_processing]> select * from warehouse;
```

warehouse_id	city
501	Bangalore
502	Gulbarga
503	Mumbai
504	Delhi
505	Chennai

```
5 rows in set (0.001 sec)
```

## SHIPMENT Table:

```
MariaDB [order_processing]> desc shipment;
```

Field	Type	Null	Key	Default	Extra
order_no	int(11)	YES	MUL	NULL	
warehouse_id	int(11)	YES	MUL	NULL	
ship_date	date	YES		NULL	

```
3 rows in set (0.004 sec)
```

## SHIPMENT Table VALUES:

```
MariaDB [order_processing]> select * from shipment;
```

order_no	warehouse_id	ship_date
201	501	2020-03-10
202	502	2020-04-08
203	503	2020-03-24
204	504	2020-04-25
205	505	2020-02-26

```
5 rows in set (0.001 sec)
```

# ORDER PROCESSING DATABASE

## QUERIES:

01. Produce a listing: CUSTNAME, #oforders, AVG\_ORDER\_AMT, where the middle column is the total numbers of orders by the customer and the last column is the average order amount for that customer.

```
select C.cnmae,count(order_no) as No_Of_Orders,avg(ord_amt)
as Avg_Amount from customer C,orders O
where C.cust_id = O.cust_id
group by C.cnmae;
```

cnmae	No_Of_Orders	Avg_Amount
Aejaz	1	4000.0000
Amir	1	1250.0000
Asim	1	5000.0000
Mohsin	1	1549.0000
Yaseen	1	2500.0000

5 rows in set (0.001 sec)

02. List the order# for orders that were shipped from all warehouses that the company has in a specific city.

```
select order_no from orders where order_no in
(select order_no from shipment
where warehouse_id in
(select warehouse_id from warehouse
where city = 'Bangalore'));
```

```
order_no
201
1 row in set (0.010 sec)
```

03. Demonstrate how you delete item# 10 from the ITEM table and make that field null in the ORDER\_ITEM table.

```
select * from item;
delete from item where item_id = 301;
select * from item;
select * from order_item;
```

# ORDER PROCESSING DATABASE

```
MariaDB [order_processing]> select * from item;
+-----+-----+
| item_id | price |
+-----+-----+
| 301    | 2500  |
| 302    | 1250  |
| 303    | 5200  |
| 304    | 8751  |
| 305    | 4512  |
+-----+-----+
5 rows in set (0.054 sec)
```

## AFTER DELETION Contents of ITEM Table:

```
MariaDB [order_processing]> select * from item;
+-----+-----+
| item_id | price |
+-----+-----+
| 302    | 1250  |
| 303    | 5200  |
| 304    | 8751  |
| 305    | 4512  |
+-----+-----+
4 rows in set (0.001 sec)
```

## Contents of ORDER ITEM Table:

```
MariaDB [order_processing]> delete from item where item_id = 301;
Query OK, 1 row affected (0.141 sec)

MariaDB [order_processing]> select * from order_item;
+-----+-----+-----+
| order_no | item_id | qty |
+-----+-----+-----+
| 201     | NULL   | 2   |
| 202     | 302    | 1   |
| 203     | 303    | 3   |
| 204     | 304    | 2   |
| 205     | 305    | 1   |
+-----+-----+-----+
5 rows in set (0.001 sec)
```