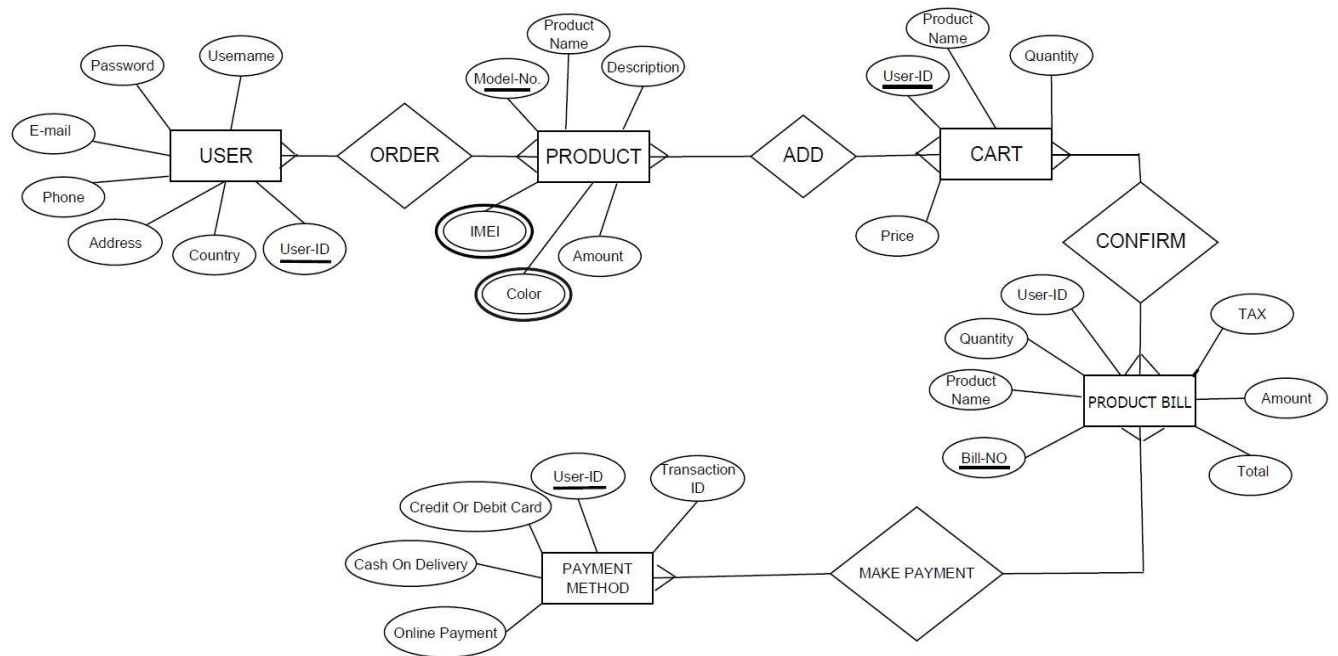# <u>Topic:</u> Online Mobile Shop Database Management

<u>Introduction:</u>

This project represents the model of online mobile shop database management system. The entity relationship diagram shows all the visual instrument of database table and the relations between user,product,product bill etc. The main entities of the online mobile shop management system are user, product,cart,product bill and payment method.

1. Each customer has a unique user id and has a email,password, user name,phone number,country and address.
2. Each product has a IMEI, product name,description, amount,colour,image and unique Model Number.
3. Each product added to the cart and each cart has a unique user id and has a product name, quantity and price.
4. For each product bill, a unique bill number,user id,product name,quantity,total price,tax and amount must be recorded. Each product bill makes payment by a given payment method.
5. Each payment method is identified by user id and has credit or debit card, online payment,cash on delivery and transaction id.
6. Each customer can order many products and each product can be ordered by many customers.
7. Each cart can confirm many product bills and each product bill can be confirmed by many carts.
8. Each product can be added by many cart and each cart can be filled up by many products.
9. Each product makes payment by many payment method and each payment method can be made by many product bills.

ER Diagram:

Normalization:

Serial number	Table name	Column name
01	Customer	User_id,Username,Password ,Email,Phone, Aid
02	Address	Aid,Address, Country
03	Product	Model_no,proname,description,amount
04	Device_IMEI	Model_no , IMEI
05	Device_color	Model_no, color
06	New_id	NID ,User_id ,Model_no
07	Cart	User_id , pro_name ,PID
08	Product_id	PID , quantity , price
09	New_id2	Sid ,user_id , model_no
10	Bill	User_id ,Billno ,pro_name ,Bid
11	Price	Bid , tax , amount , quantity , totalprice
12	Bill_2	TID ,user_id , BID

| 13 | Payment_method | User_id1 , credit_debit , online payment , cash_on_delievery , TID |
| 14 | Customer__id | CID , User_id1 , User_id |

DDL/DML:

Screenshot Of DESC

Object Type **TABLE** Object **CUSTOMER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	USER_ID	Number	-	15	0	1	-	-	-
	USER_NAME	Varchar2	30	-	-	-	✓	-	-
	PASSWORD	Number	-	20	0	-	✓	-	-
	EMAIL	Varchar2	25	-	-	-	✓	-	-
	PHONE	Number	-	13	0	-	✓	-	-
	AID	Number	-	15	0	-	✓	-	-
									1 - 6

Object Type **TABLE** Object **ADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADDRESS	AID	Number	-	15	0	1	-	-	-
	ADDRESS	Varchar2	25	-	-	-	✓	-	-
	COUNTRY	Varchar2	15	-	-	-	✓	'Bangladesh'	-
									1 - 3

Object Type **TABLE** Object **PRODUCT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRODUCT	MODEL_NO	Number	-	10	0	1	-	-	-
	AMOUNT	Number	-	15	0	-	✓	-	-
	PRONAME	Varchar2	15	-	-	-	✓	-	-
	DESCRIPTION	Varchar2	40	-	-	-	✓	-	-
									1 - 4

Object Type **TABLE** Object **DEVICE_IMEI**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEVICE_IMEI	MODEL_NO	Number	-	10	0	1	-	-	-
	IMEI	Varchar2	15	-	-	2	-	-	-
									1 - 2

Object Type **TABLE** Object **DEVICE_COLOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEVICE_COLOR	MODEL_NO	Number	-	10	0	1	-	-	-
	COLOR	Varchar2	10	-	-	2	-	-	-
									1 - 2

Object Type **TABLE** Object **NEW_ID**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEW_ID	N_ID	Number	-	16	0	1	-	-	-
	USER_ID	Number	-	15	0	-	✔	-	-
	MODEL_NO	Number	-	15	0	-	✔	-	-
									1 - 3

Object Type **TABLE** Object **CART**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CART	USER_ID	Number	-	15	0	1	-	-	-
	PRO_NAME	Varchar2	15	-	-	-	✔	-	-
	P_ID	Number	-	15	0	-	✔	-	-
									1 - 3

Object Type **TABLE** Object **PRODUCT_ID**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRODUCT_ID	P_ID	Number	-	10	0	1	-	-	-
	QUANTITY	Number	-	10	0	-	✔	-	-
	PRICE	Number	-	10	0	-	✔	-	-
									1 - 3

Object Type **TABLE** Object **NEW_ID2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NEW_ID2	S_ID	Number	-	15	0	1	-	-	-
	USER_ID	Number	-	15	0	-	✔	-	-
	MODEL_NO	Number	-	15	0	-	✔	-	-
									1 - 3

Object Type **TABLE** Object **BILL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BILL	USER_ID	Number	-	10	0	1	-	-	-
	BILL_NO	Number	-	10	0	-	✔	-	-
	PRO_NAME	Varchar2	15	-	-	-	✔	-	-
	B_ID	Number	-	15	0	-	✔	-	-
									1 - 4

Object Type **TABLE** Object **PRICE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRICE	B_ID	Number	-	10	0	1	-	-	-
	TAX	Number	-	15	0	-	✔	-	-
	AMOUNT	Number	-	15	0	-	✔	-	-
	QUANTITY	Number	-	10	0	-	✔	-	-
	TOTALPRICE	Number	-	15	0	-	✔	-	-
									1 - 5

Object Type **TABLE** Object **BILL_2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BILL_2	TID	Number	-	10	0	1	-	-	-
	USER_ID	Number	-	10	0	-	✓	-	-
	B_ID	Number	-	15	0	-	✓	-	-
									1 - 3

Object Type **TABLE** Object **PAYMENT_METHOD**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT_METHOD	CREDIT_OR_DEBIT	Number	-	20	0	-	✓	-	-
	ONLINE_PAYMENT	Varchar2	15	-	-	-	✓	-	-
	CASH_ON_DELIVERY	Varchar2	15	-	-	-	✓	-	-
	USER_ID1	Number	-	10	0	1	-	-	-
	TID	Number	-	15	0	-	✓	-	-
									1 - 5

Object Type **TABLE** Object **CUSTOMER__ID**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER__ID	CID	Number	-	10	0	1	-	-	-
	USER_ID1	Number	-	10	0	-	✓	-	-
	USER_ID	Number	-	10	0	-	✓	-	-
									1 - 3

Screenshot Of Select *

```
select * from customer
```

Results **Explain** **Describe** **Saved SQL** **History**

USER_ID	USER_NAME	PASSWORD	EMAIL	PHONE	AID
7	swarna	12334	swarna@gmail.com	1767223511	103
5	Jisun	12345	jisun@gmail.com	1767222411	101
6	moni	12344	moni@gmail.com	1767222511	102
8	sayma	12674	sayma@gmail.com	1767247811	104

4 rows returned in 0.00 seconds   CSV Export

```
select * from  address
```

Results **Explain** **Describe** **Saved SQL** **History**

AID	ADDRESS	COUNTRY
101	kuratoli	Bangladesh
102	uttara	Bangladesh
103	dhanmondi	Bangladesh
104	bashundhara	Bangladesh

4 rows returned in 0.00 seconds   CSV Export

```
select * from product
```

MODEL_NO	AMOUNT	PRONAME	DESCRIPTION
5692	35000	Xiaomi_K20_Pro	Camera:48MP,Ram:6/8GB,Storage:128/256GB
3265	25000	Samsung A50	Camera:25MP,Ram:4/6GB,Storage:64/128
1022	29999	Huawei_p20	Camera:12MP,Ram:4/6GB,Storage:64/128
8475	72999	OnePlus_7_Pro	Camera:48MP,Ram:8/12GB,Storage:128/256

4 rows returned in 0.00 seconds   CSV Export

```
select *
from device_IMEI
```

MODEL_NO	IMEI
1022	865396274635274
3265	865385244635274
5692	865110044635274
8475	892645281462274

4 rows returned in 0.00 seconds   CSV Export

```
select *
from device_color
```

MODEL_NO	COLOR
1022	Black
5692	Blue
5692	Red
8475	White

4 rows returned in 0.02 seconds   CSV E

```
select * from new_id
```

N_ID	USER_ID	MODEL_NO
19999834763840	5	5692
19999834769475	6	3265
19945876569456	7	1022
19945374526178	8	8475

4 rows returned in 0.00 seconds   CSV Export

```
select * from cart
```

USER_ID	PRO_NAME	P_ID
5	Xiaomi_K20_Pro	985
6	Samsung A50	632
7	Huawei_p20	755
8	OnePlus_7_Pro	889

4 rows returned in 0.00 seconds   CSV Export

```
select * from product_id
```

P_ID	QUANTITY	PRICE
985	2	70000
632	3	75000
755	1	29999
889	1	72999

4 rows returned in 0.00 seconds   CSV Export

```
select *
from new_id2
```

Results   Explain   Describe   Saved SQL   History

S_ID	USER_ID	MODEL_NO
201	5	5692
202	6	3265
203	7	1022
204	8	8475

4 rows returned in 0.00 seconds   CSV Export

```
select *
from bill
```

Results   Explain   Describe   Saved SQL   History

USER_ID	BILL_NO	PRO_NAME	B_ID
5	501	Xiaomi_K20_Pro	36566
6	602	Samsung A50	65835
7	703	Huawei_p20	12435
8	804	OnePlus_7_Pro	12475

4 rows returned in 0.00 seconds   CSV Export

```
select *
from price
```

Results   Explain   Describe   Saved SQL   History

B_ID	TAX	AMOUNT	QUANTITY	TOTALPRICE
36566	2476	70000	2	72476
65835	3212	75000	3	78212
12435	809	29999	1	30808
12475	7295	72999	1	80294

4 rows returned in 0.00 seconds   CSV Export

```
select *
from bill_2
```

Results   Explain   Describe   S

TID	USER_ID	B_ID
7648364	5	36566
283476	6	65835
83743	7	12435
22374	8	12475

4 rows returned in 0.00 seconds

```
select *
from payment_method
```

CREDIT_OR_DEBIT	ONLINE_PAYMENT	CASH_ON_DELIVERY	USER_ID1	TID
82734623864	-	-	1	7648364
-	Bkash	-	2	283476
-	Rocket	-	3	83743
-	-	Yes	4	22374

4 rows returned in 0.00 seconds   CSV Export

```
select * from customer__id
```

CID	USER_ID1	USER_ID
101	1	5
102	2	6
103	3	7
104	4	8

4 rows returned in 0.00 seconds   CSV Export

```
select *
from user_sequences
```

Results Explain Describe Saved SQL History

SEQUENCE_NAME	MIN_VALUE	MAX_VALUE	INCREMENT_BY	CYCLE_FLAG	ORDER_FLAG	CACHE_SIZE	LAST_NUMBER
CUSTOMER_SQ	1	120	1	N	N	0	9

1 rows returned in 0.03 seconds   CSV Export

Constraint:

Disabling The Constraint

OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION	R_OWNER	R_CONSTRAINT_NAME	DELETE_RULE	STATUS
SCOTT	SYS_C004572	C	ADDRESS	"ADDRESS" IS NOT NULL	-	-	-	DISABLED
SCOTT	X2	P	ADDRESS	-	-	-	-	ENABLED

After Enabling Constraint

Results Explain Describe Saved SQL History

AID	ADDRESS	COUNTRY
101	KURATOLI	Bangladesh
102	DHANMONDI	Bangladesh
103	-	Bangladesh
104	BASHUNDHARA	Bangladesh

4 rows returned in 0.01 seconds   CSV Export