

ONLINE SHOPPING SYSTEM DATABASE



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1.Description

Following database schema is designed to function as backend Storage database for a web Application built to manage a online shopping.

This database contains 5 tables :

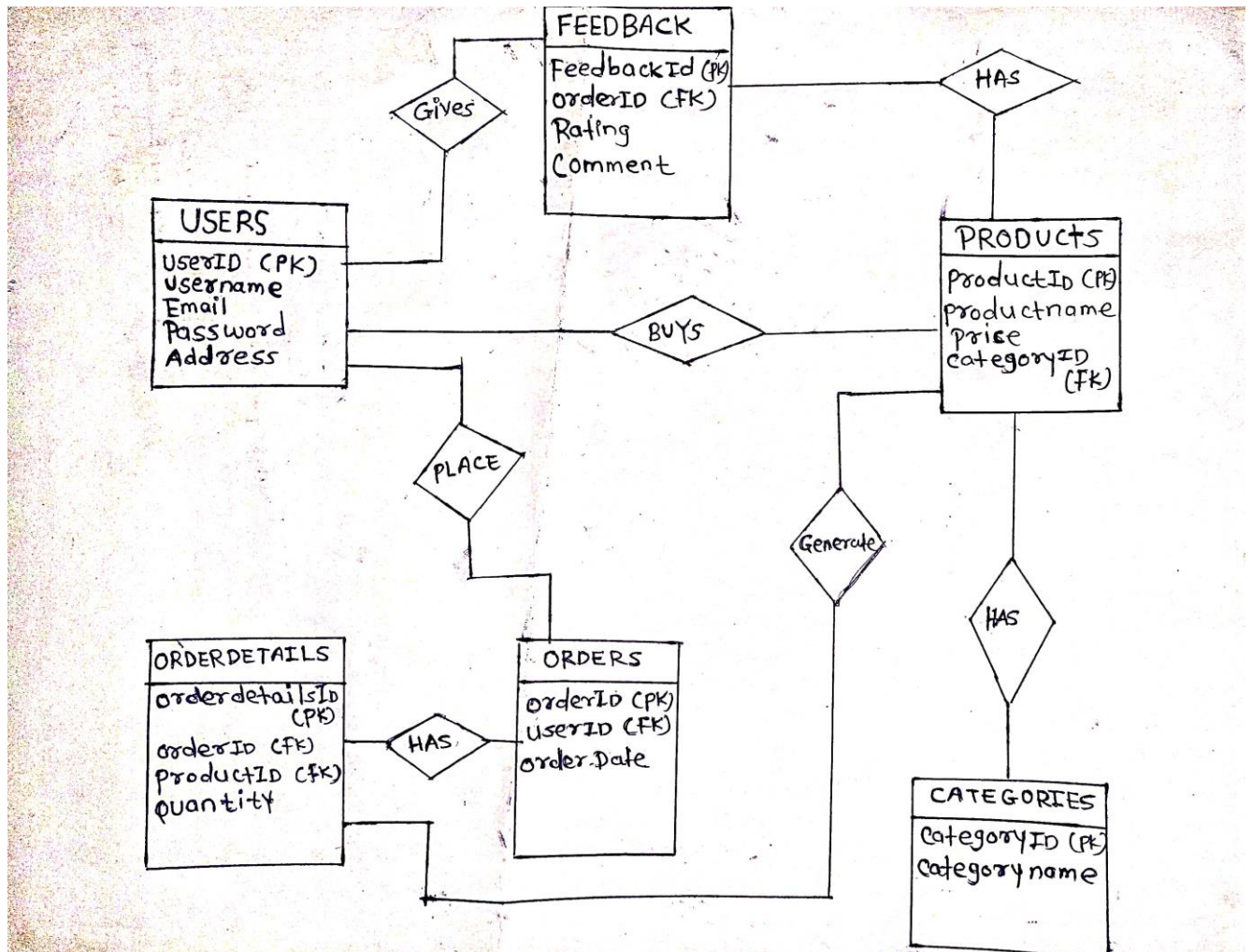
Tables :

1. Users : this table facilitates user registration,authentication and Account management.
2. Categories : organizes product into distinct categories .
3. Product : contain details about products such as name , price and associations with specific categories.
4. Order : manages information related to user transaction.
5. Orderdetails : associates product with specific orders and capture details like quantities.
6. Feedback : collects and store user feedback on order and product.

Entities :

1. Users : attributes include userid(pk),username,email,password, Address,
2. Categories : attribute include categoryid(pk),categoryname
3. Products : attributes include productid(pk),productname,price, categoryid(fk)
4. Orders : attributes include ordered(pk),userid(fk),orderdate
5. Orderdetails: attributes include orderdetail_id(pk),ordered(fk), productid(fk),quantity
6. feedback : feed_id, ordered(fk),rating ,comment

2. ER DIAGRAM FOR ONLINE SHOPPING SYSTEM DATABASE



3.TABLE DESCRIPTION

1. User

```
MariaDB [project]> desc user;
```

Field	Type	Null	Key	Default	Extra
userid	int(11)	NO	PRI	NULL	
username	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	

2. Category

```
MariaDB [project]> desc category;
```

Field	Type	Null	Key	Default	Extra
cat_id	int(11)	NO	PRI	NULL	
name	varchar(255)	YES		NULL	

3. Product

```
MariaDB [project]> desc product;
```

Field	Type	Null	Key	Default	Extra
productid	int(11)	NO	PRI	NULL	
name	varchar(255)	YES		NULL	
price	float	YES		NULL	
cat_id	int(11)	YES	MUL	NULL	

4. Order1

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

Field	Type	Null	Key	Default	Extra
orderid	int(11)	NO	PRI	NULL	
userid	int(11)	YES	MUL	NULL	
orderdate	date	YES		NULL	

```
3 rows in set (0.051 sec)
```

5. Order_Details

```
MariaDB [casestudy]> desc orderdetails;
```

Field	Type	Null	Key	Default	Extra
orderdetailid	int(11)	NO	PRI	NULL	
orderid	int(11)	YES	MUL	NULL	
productid	int(11)	YES	MUL	NULL	
quantity	int(11)	YES		NULL	

6. Feedback

```
MariaDB [casestudy]> desc feedback;
```

Field	Type	Null	Key	Default	Extra
feedbackid	int(11)	NO	PRI	NULL	
orderid	int(11)	YES	MUL	NULL	
rating	int(11)	YES		NULL	
comment	varchar(255)	YES		NULL	

4.COMMANDS

- **Create database**

Create database casestudy;

- **Select database**

Use casestudy ;

- **Create table named users:**

create table users(userid int primary key,username varchar(255), email varchar(255),password varchar(255), address varchar(255));

- **Create table named categories:**

create table categories(categoryid int primary key, categoryname varchar(244));

- **Create table named products:**

create table products(productid int primary key,productname varchar(255), price decimal(10, 2),categoryid int, foreign key(categoryid) references categories(categoryid));

- **Create table named orders:**

create table orders(orderid int primary key,userid int,orderdate date,foreign key(userid) references users(userid));

- **Create table named orderdetails :**

create table orderdetails(orderdetailid int primary key,orderid int, productid int, quantity int,foreign key(orderid) references orders(orderid),foreign key(productid) references products(productid));

- **Create table Feedback**

create table feedback (feedbackid int primary key,orderid int,rating int,comment varchar(255), foreign key(orderid) references orders(orderid));

1) Insert values to users:

insert into users values (1,'rohit','rohit@email.com','pass123','near satara bus stop'),
(2,'omkar','om12@email.com','pass1223','nerul sector 10'),
(3,'pratham','pratham2@email.com','pass223','nerul sector 1'),
(4,'shubham','shubh12@email.com','shubh223','kurla mumbai'),
(5,'rohit','rohit12@email.com','rohit223','jaipur rajasthan'),
(6,'kiran','kiran112@email.com','password223','koynanagar patan'),
(8,'kiran','kl112@email.com','password3','patan satara'),
(7,'chetan','chetanmore112@email.com','password433','turbhe west'),
(9,'manoj','manojmore12@email.com','password','kolkata'),
(10,'vedant','vedant2@email.com','pass321','nagpur city'),
(11,'shwetali','shwetali22@email.com','shwetali5321','chennai east'),
(12,'shwetali','shweta32@email.com','shwetali','123main station kurla east'),
(13,'minal','minal332@email.com','pass435','dahanu near bus stop'),
(14,'ashutosh','ashu932@email.com','pass0987','kalwa bus stop'),
(15,'vaishanavi','vaish932@email.com','vaish0987','ratnagiri near railway st');

2) Insert values into categories:

insert into categories values (1,'electronics'),(2,'clothing'),(3,'home and kitchen'),(4,'books'),(5,'toys'),(6,'beauty'), (7,'sports and outdoors'),(8,'automotive'),(9,'health and wellness'),(10,'jewelary'),
(11,'furniture'),(12,'office supplies'),(13,'pet supplies'),(14,'food'),(15,'music');

3) Insert values into products :

```
insert into products values (1,'smartphone',15666.99,1);
insert into products values (2,'laptop',5666.99,1);
insert into products values (3,'headphones',666.99,1);
insert into products values (4,'Tshirts',199.99,2);
insert into products values (5,'jeanse',299.99,2);
insert into products values (6,'dress shirt',599.99,2);
insert into products values (7,'coffee maker',999.99,3);
insert into products values (8,'blender',799.99,3);
insert into products values (9,'toaster',499.99,3);
insert into products values (10,'novel',99.99,4);
insert into products values (11,'cook book',929.99,4);
insert into products values (12,'childrens book',129.99,4);
insert into products values (13,'action figure',99.99,5);
insert into products values (14,'board game',997.99,5);
insert into products values (15,'lipstick',997.99,6);
insert into products values (16,'shampoo',97.99,6);
```

4) Insert values into orders :

```
insert into orders values (1,1,'2024-03-08'),(2,2,'2024-03-09'),(3,3,'2024-03-10'),(4,4,'2024-03-11'),(5,5,'2024-03-11'),(6,6,'2024-03-12'),(7,7,'2024-03-13'),(8,8,'2024-03-14'),(9,9,'2024-03-15'),(10,10,'2024-03-16'),(11,11,'2024-03-17'),(12,12,'2024-03-18'),(13,13,'2024-03-19'),(14,14,'2024-03-20'),(15,15,'2024-03-21');
```

5) Insert values into orderdetails :

```
insert into orderdetails values(1,1,1,2),
insert into orderdetails values (2,1,3,1);
insert into orderdetails values (3,3,2,1);
insert into orderdetails values (4,2,5,3);
insert into orderdetails values (5,3,10,2);
insert into orderdetails values (6,3,12,1);
insert into orderdetails values (7,4,15,2);
insert into orderdetails values (8,4,13,1);
insert into orderdetails values (9,5,6,3);
```


insert into orderdetails values (10,5,8,2);
insert into orderdetails values (11,6,9,1);
insert into orderdetails values (12,6,11,2);
Insert into orderdetails values (13,7,14,1);
insert into orderdetails values (14,7,1,2);
insert into orderdetails values (15,8,7,1);

6) Insert values into feedback:

insert into feedback values (1,1,5,'Great service');
insert into feedback values (2,2,4,'product quality is good');
insert into feedback values (3,3,3,'delivery on time');
insert into feedback values (4,4,5,'excellent experience');
insert into feedback values (5,5,2,'item was damage upon arrival');
insert into feedback values (6,6,4,'fast shipping');
insert into feedback values (7,7,5,'vary satisfied with the purchase');
insert into feedback values (8,8,3,'average product quality');
insert into feedback values (9,9,5,'null');
insert into feedback values (10,10,1,'terrible customer service');
insert into feedback values (11,11,4,'packaging could be better');
insert into feedback values (12,12,5,'null');
insert into feedback values (13,13,2,'highly recommended');
insert into feedback values (14,14,4,'null');
insert into feedback values (15,15,3,'difficult return process');

5) SUB-QUERIES:

1) To get all products in specific category :

- Select productname ,price from products where categoryid =(categoryid);

```
MariaDB [casestudy]> Select productname ,price from products where categoryid =(categoryid);
```

productname	price
smartphone	15666.99
laptop	5666.99
headphones	666.99
Tshirts	199.99
jeanse	299.99
dress shirt	599.99
coffee maker	999.99
blender	799.99
toaster	499.99
novel	99.99
cook book	929.99
childrens book	129.99
action figure	99.99
board game	997.99
lipstick	997.99
shampoo	97.99
yogamat	250.99

2) List all order with user details :

- Select orders.orderid , orderdate ,username,email from orders join user on orders.userid = users.userid;

```
MariaDB [casestudy]> select orders.orderid,orderdate,username,email from orders join users on orders.userid = users.userid;
```

orderid	orderdate	username	email
1	2024-03-08	rohit	rohit@email.com
2	2024-03-09	omkar	om12@email.com
3	2024-03-10	pratham	pratham2@email.com
4	2024-03-11	shubham	shubh12@email.com
5	2024-03-11	rohit	rohit12@email.com
6	2024-03-12	kiran	kiran112@email.com
7	2024-03-13	chetan	chetanmore112@email.com
8	2024-03-14	kiran	kl112@email.com
9	2024-03-15	manoj	manojmore12@email.com
10	2024-03-16	vedant	vedant2@email.com
11	2024-03-17	shwetali	shwetali22@email.com
12	2024-03-18	shwetali	shweta32@email.com
13	2024-03-19	minal	minal332@email.com
14	2024-03-20	ashutosh	ashu932@email.com
15	2024-03-21	vaishanavi	vaish932@email.com

3) To get feedback for orders

- Select rating,comment from feedback where ordered = (orderid);

```
MariaDB [casestudy]> select rating , comment from feedback where ordered = (orderid);
```

rating	comment
5	Great service
4	product quality is good
3	delivery on time
5	excellent experience
2	item was damage upon arrival
4	fast shipping
5	vary satisfied with the purchase
3	average product quality
5	null
1	terrible customer service
4	packaging could be better
5	null
2	highly recommended
4	null
3	difficult return process

4) List order with feedback comment :

- Select orders.orderid , rating,comment from feedback join orders on feedback.orderid = orders.orderid;

```
MariaDB [casestudy]> Select orders.orderid , rating,comment from feedback join orders on feedback.orderid = orders.orderid;
```

orderid	rating	comment
1	5	Great service
2	4	product quality is good
3	3	delivery on time
4	5	excellent experience
5	2	item was damage upon arrival
6	4	fast shipping
7	5	vary satisfied with the purchase
8	3	average product quality
9	5	null
10	1	terrible customer service
11	4	packaging could be better
12	5	null
13	2	highly recommended
14	4	null
15	3	difficult return process

5) Identity products with no feedback :

Select productname from products left join orderdetails on products.productid =
orderdetails.productid left join feedback on orderdetails.orderid = feedback.orderid

Where feedback.feedbackid is NULL;

```
MariaDB [casestudy]> select productname from products left join orderdetails on products.productid = orderdetails.productid left join feedback on orderdetails.orderid = feedback.orderid where feedback.feedbackid is null;
```

productname
Tshirts
shampoo
yogamat

