Online Shopping

Name : Gungun Singhal
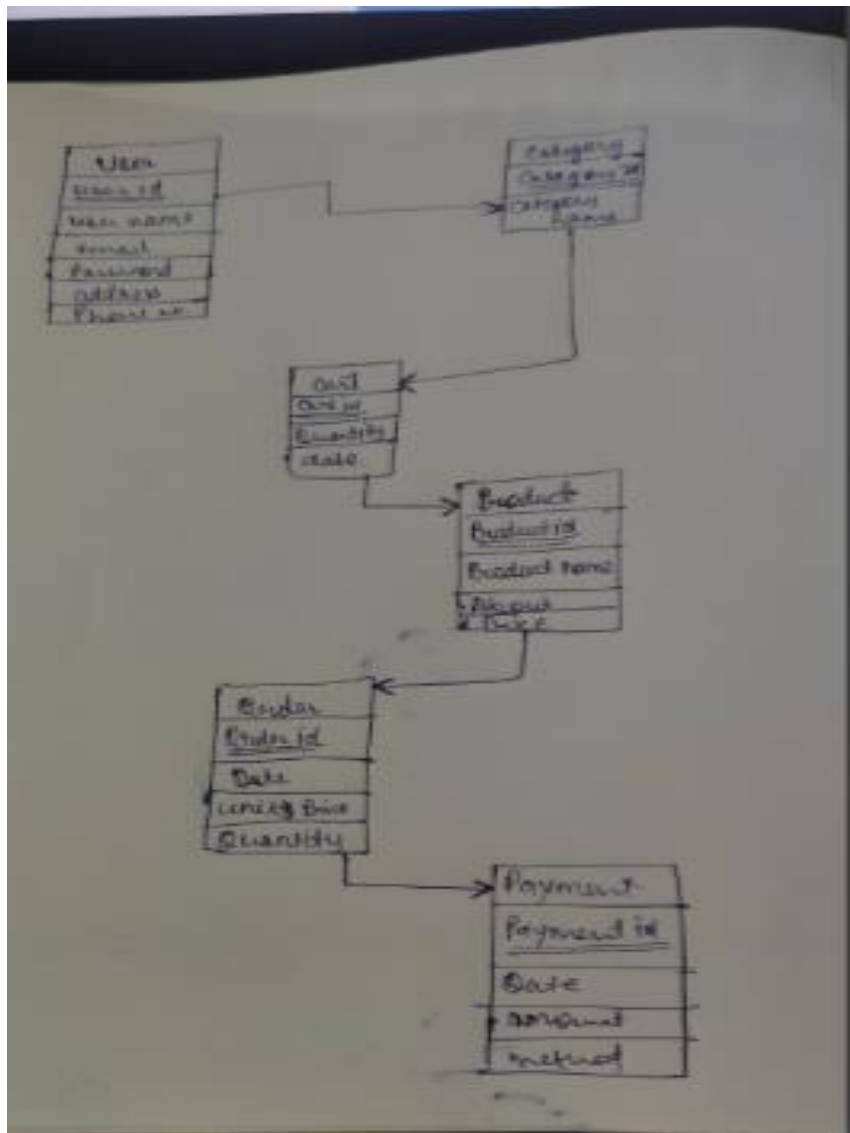
Phone number : 9782208398
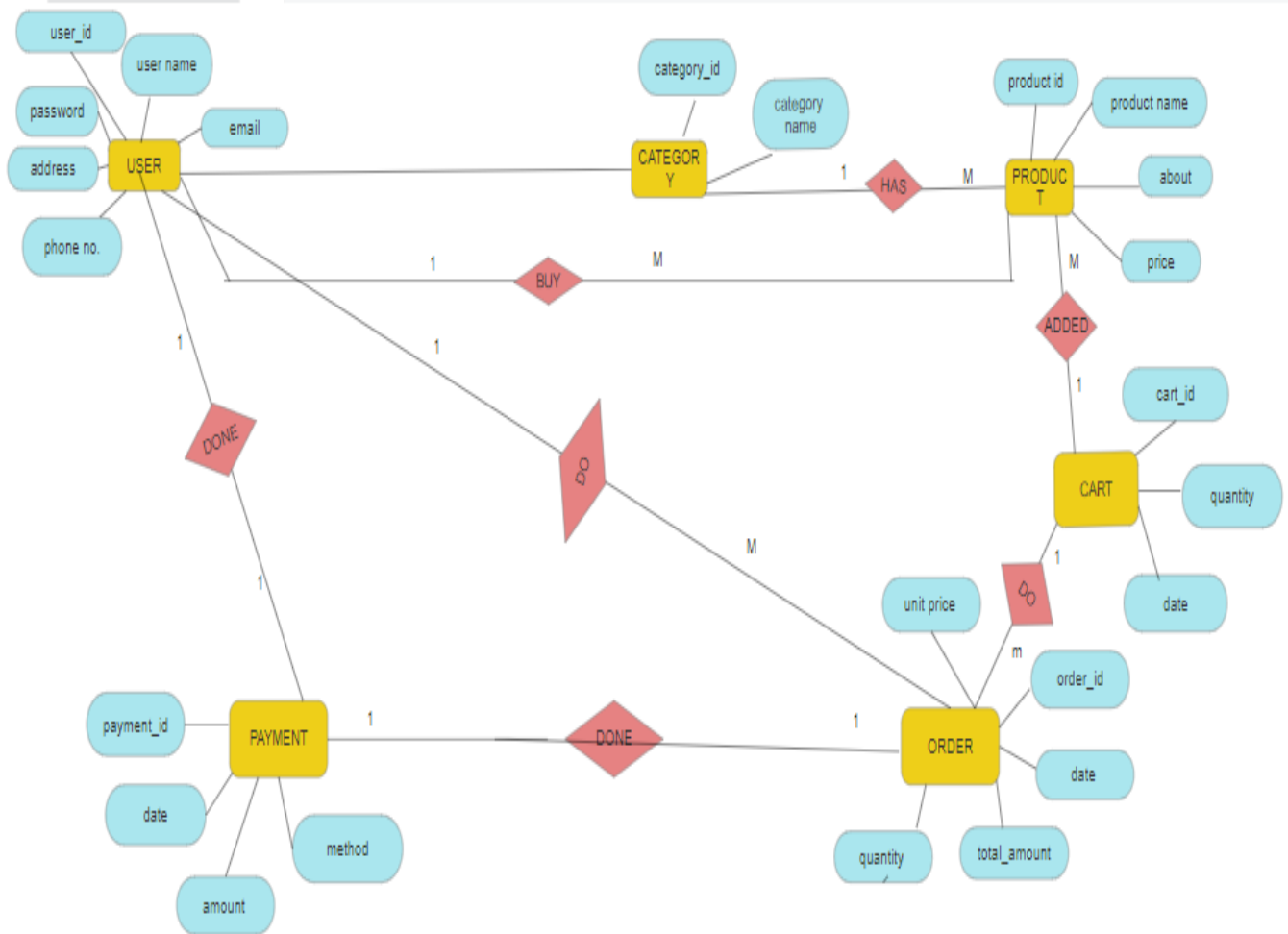
Project name : online shopping

Description : In this project I create only the database of the online shopping system . where I create the database and run the many queries to get the information . It helps to stored all the data of users from registration to payment. It store information about the products available for purchase, indicating price and stock data for each product. Customers have a shopping cart, where the products they choose from the catalog are stored before the customer is ready to place their order .When the customer confirms an order, the data model able to record the order data as well as payment information.

So first I make a ER diagram where The process starts by sketching a conceptual model ,In this step we generate the relationship between the entities Let's move forward with our ER diagram for online shopping. After identifying the entities that compose it and sketching the conceptual model, we need to define the attributes that compose each entity. Once we have added the attributes, we will have a complete logical diagram. It is important to highlight that all the entities must have a primary identifier so that later (in the physical model) all the table will have the primary key .

➢ **Object diagram ->**

➢ **ER(Entity Relation)diagram:**

(ERD of Online Shopping)

queries

#Create a database :

    create database onlineshopping;

#To use a database which we create :

    use onlineshopping ;

#create tables :

```sql
create table user(
user_id int auto_increment primary key,
username varchar(50),
email varchar(50),
password varchar (30),
address varchar(100),
phone_number varchar(20));
insert into user(username, email, password, address, phone_number)
values('Gungun','singhalgungun6@gmail.com','gunnu12','jaipur','9782208398');
insert into user(username, email, password, address, phone_number)
values('saloni','singhalsaloni6@gmail.com','salo12','kota','2182208398');
insert into user(username, email, password, address, phone_number)
values('mahima','mahima@gmail.com','mahi12','alwar','67808398');
insert into user(username, email, password, address, phone_number)
values('nitin','nitin6@gmail.com','nitin12','kherli','2208398');
insert into user(username, email, password, address, phone_number)
values('mitisha','meet@gmail.com','meet1245','jaipur','56208398');
insert into user(username, email, password, address, phone_number)
values('vishal','vishal@gmail.com','vish12','kota','8708398');
insert into user(username, email, password, address, phone_number)
values('sohan','sohann6@gmail.com','soh12','alwar','97398');
insert into user(username, email, password, address, phone_number)
values('mohit','mohit@gmail.com','mohi12','mumbai','974568398');
insert into user(username, email, password, address, phone_number)
values('rohit','rohit6@gmail.com','rohi12','delhi','978398');
insert into user(username, email, password, address, phone_number)
values('lovey','lovey6@gmail.com','love122','gurugram','67808398');
select *from user;
```

Output =

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
4	nitin	nitin6@gmail.com	nitin12	kherli	2208398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL	NULL	NULL	NULL

create table Category (

category_id int auto_increment primary key,

category_name varchar(50));

insert into Category (category_name) values ('Electronics'), ('fashion'), ('Books'), ('grocery'),('beauty'),

('home'),('travel'),('toys'),('pharmacy'),('furniture'),('sports');

select*from Category;

Output =

category_id	category_name
1	Electronics
2	fashion
3	Books
4	grocery
5	beauty
6	home
7	travel
8	toys
9	pharmacy
10	furniture
11	sports
NULL	NULL

create table Cart1 (

cart_id int auto_increment primary key,

user_id int,

product_id int,

    quantity int,

    date TIMESTAMP,

    foreign key (user_id) references user(user_id));

    insert into Cart1(user_id, product_id, quantity, date) values (1, 1, 2, now()), (1, 2, 3, now()) ,(2,3,1,now()),(4,5,3,now()),

(6,8,4, now()),(8,10,2,now()),(9,2,1,now());

select *from Cart1;

Output =

cart_id	user_id	product_id	quantity	date
1	1	1	2	2023-11-06 18:42:11
2	1	2	3	2023-11-06 18:42:11
3	2	3	1	2023-11-06 18:42:11
4	4	5	3	2023-11-06 18:42:11
5	6	8	4	2023-11-06 18:42:11
6	8	10	2	2023-11-06 18:42:11
7	9	2	1	2023-11-06 18:42:11
NULL	NULL	NULL	NULL	NULL

    create table product2(

 product_id int auto_increment primary key,

    product_name varchar(100),

    about text,

    price decimal(10, 2),

    category_id int,

    cart_id int,

    foreign key (category_id) references Category(category_id),

     foreign key (cart_id) references Cart1(cart_id));

    insert into Product2 (product_name, about, price, category_id,cart_id) values ('apple', 'High-quality smartphone with advanced features', 500.00, 1,1),

('T-shirt', 'Comfortable cotton t-shirt for everyday wear', 20.00, 2,1),('Introduction to SQL', 'Comprehensive guide to SQL programming', 30.00, 3,1),

('aashirwaad flour', 'it is best for health ',120.99,4,2),('dr,seth','best sunscreen',600.00,5,3),

('gas stoves',' for kitchen',5678.00,6,3),('indigo flight','book tickets',1000.00, 7,4),('toy car','car for kids',345.00,8,5),

('sumo','for cold',23.00,9,6),('chair',' comfortable',567.00,10,7),('shoes','comfortable for running',459.00,11,6),('samsung','High-quality smartphone with advanced features',567890.00,1,6),

('shirt','Comfortable cotton t-shirt for everyday wear',345.00,2,5),('Introduction to DSA', 'Comprehensive guide to DSA programming', 40.00, 3,4),

('daal', 'it is best for health ',12.99,4,3);

select *from Product2;

Output =

	product_id	product_name	about	price	category_id	cart_id
▶	1	apple	High-quality smartphone with advanced features	500.00	1	1
	2	T-shirt	Comfortable cotton t-shirt for everyday wear	20.00	2	1
	3	Introduction to SQL	Comprehensive guide to SQL programming	30.00	3	1
	4	aashirwaad flour	it is best for health	120.99	4	2
	5	dr,seth	best sunscreen	600.00	5	3
	6	gas stoves	for kitchen	5678.00	6	3
	7	indigo flight	book tickets	1000.00	7	4
	8	toy car	car for kids	345.00	8	5
	9	sumo	for cold	23.00	9	6
	10	chair	comfortable	567.00	10	7
	11	shoes	comfortable for running	459.00	11	6
	12	samsung	High-quality smartphone with advanced features	567890...	1	6
	13	shirt	Comfortable cotton t-shirt for everyday wear	345.00	2	5
	14	Introduction to DSA	Comprehensive guide to DSA programming	40.00	3	4
	15	daal	it is best for health	12.99	4	3
▲	NULL	NULL	NULL	NULL	NULL	NULL

create table Order1 (

order_id int auto_increment primary key,

user_id int,

order_date timestamp,

unit_price decimal(10, 2),

quantity int,

total_amount decimal(10, 2),

foreign key (user_id) references User(user_id));

insert into Order1 (user_id, order_date, unit_price, quantity, total_amount) values (1, NOW(), 150.00,1,150.00) ,(2,now(),40.00,4,160.00),(3,now(),20.00,2, 40.00), (4,now(),10.00,1,10.00),

(5,now(),50.00,5, 250.00),(6,now(),30.00,3,90.00)

select*from Order1;

Output =

order_id	user_id	order_date	unit_price	quantity	total_amount
1	1	2023-11-04 13:20:50	150.00	1	150.00
2	2	2023-11-04 13:20:50	40.00	4	160.00
3	4	2023-11-04 13:20:50	20.00	2	40.00
4	6	2023-11-04 13:20:50	10.00	1	10.00
5	8	2023-11-04 13:20:50	50.00	5	250.00
6	9	2023-11-04 13:20:50	30.00	3	90.00
NULL	NULL	NULL	NULL	NULL	NULL

create table Payment (

payment_id int auto_increment primary key,

user_id int unique,

order_id int unique,

payment_date timestamp,

payment_amount decimal(10, 2),

payment_method varchar(50),

paymentStatus varchar(20),

foreign key (user_id) references User(user_id),

foreign key (order_id) references Order1(order_id));

insert into Payment (user_id, order_id, payment_date, payment_amount, payment_method,paymentStatus) values (1, 1, now(), 170.00, 'Credit Card','completed'),

(2,2,now(),123.00,'cash on delivery','completed'),(4,3,now(),234.00,'netbanking','completed'),(6,4,now(),34.00,'UPI', 'completed'),(8,5,now(),456.99,'credit card','completed'),

(9,6,now(),345.67,'EMI','completed');

select*from Payment;;

Output =

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
3	4	3	2023-11-04 22:03:07	234.00	netbanking	completed
4	6	4	2023-11-04 22:03:07	34.00	UPI	completed
5	8	5	2023-11-04 22:03:07	456.99	credit card	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#OPERATOR

- select distinct user_id from user;

user_id
1
2
4
5
6
7
8
9
10
11
NULL

- select *from user order by username;

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
4	nitin	nitin6@gmail.com	nitin12	kherli	2208398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
6	vishal	vishal@gmail.com	vish12	kota	8708398
NULL	NULL	NULL	NULL	NULL	NULL

- select *from user where user_id between 2 and 4;

user_id	username	email	password	address	phone_number
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
4	nitin	nitin6@gmail.com	nitin12	kherli	2208398
NULL	NULL	NULL	NULL	NULL	NULL

- select *from user where user_id not between 2 and 4;

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL		NULL	NULL

select*from user where username like '%a';

user_id	username	email	password	address	phone_number
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL	NULL	NULL	NULL

select*from user limit 2;

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
NULL	NULL	NULL	NULL	NULL	NULL

select*from user limit 2 offset 3;

user_id	username	email	password	address	phone_number
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
NULL	NULL	NULL	NULL	NULL	NULL

select *from user where user_id = 2 and address='kota';

user_id	username	email	password	address	phone_number
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
NULL	NULL	NULL	NULL	NULL	NULL

select *from user where user_id = 2 or address='kota';

user_id	username	email	password	address	phone_number
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
NULL	NULL	NULL	NULL	NULL	NULL

select *from user where user_id in (2,3,5) ;

user_id	username	email	password	address	phone_number
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
NULL	NULL	NULL	NULL	NULL	NULL

select *from user where user_id not in (2,3,5) ;

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	jaipur 08398
4	nitin	nitin6@gmail.com	nitin12	kherli	2208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL	NULL	NULL	NULL

select *from user order by username;

user_id	username	email	password	address	phone_number
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
4	nitin	nitin6@gmail.com	nitin12	kherli	2208398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
6	vishal	vishal@gmail.com	vish12	kota	8708398
NULL	NULL	NULL	NULL	NULL	NULL

#AGGREGATOR

select max(unit_price)from order1;

max(unit_price)
150.00

select min(unit_price)from order1;

min(unit_price)
10.00

select avg(unit_price)from order1;

avg(unit_price)
50.000000

select count(unit_price)from order1 where order_id=2;

count(unit_price)
1

select sum(unit_price) from order1 where order_id =1;

sum(unit_price)
▶ 150.00

#DATA MANUPLATIONS OPERATION

update user set username='monty' where user_id = 3;
select*from user;

user_id	username	email	password	address	phone_number
▶ 1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
4	monty	nitin6@gmail.com	nitin12	kherli	2208398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL	NULL	NULL	NULL

delete from user where password='vish12';
select*from user;

user_id	username	email	password	address	phone_number
▶ 1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398
4	monty	nitin6@gmail.com	nitin12	kherli	2208398
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398
6	vishal	vishal@gmail.com	vish12	kota	8708398
7	sohan	sohann6@gmail.com	soh12	alwar	97398
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398
9	rohit	rohit6@gmail.com	rohi12	delhi	978398
10	lovey	lovey6@gmail.com	love122	gurugram	67808398
11	mahima	mahima@gmail.com	mahi12	alwar	67808398
NULL	NULL	NULL	NULL	NULL	NULL

#JOINS

select*from user inner join product2 on user.user_id=product2.product_id inner join order1 on user.user_id=order1.order_id inner join payment on user.user_id=payment.payment_id;

user_id	username	email	password	address	phone_number	product_id	product_name	about
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398	1	apple	High-quality smartphone with advanced
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398	2	T-shirt	Comfortable cotton t-shirt for everyday
4	monty	nitin6@gmail.com	nitin12	kherli	2208398	4	aashirwaad flour	it is best for health
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398	5	dr,seth	best sunscreen
6	vishal	vishal@gmail.com	vish12	kota	8708398	6	gas stoves	for kitchen

	price	category_id	cart_id	order_id	user_id	order_date	unit_price	quantity	total_amount	payment_id
one with advanced features	500.00	1	1	1	1	2023-11-04 13:20:50	150.00	1	150.00	1
-shirt for everyday wear	20.00	2	1	2	2	2023-11-04 13:20:50	40.00	4	160.00	2
	120.99	4	2	4	6	2023-11-04 13:20:50	10.00	1	10.00	4
	600.00	5	3	5	8	2023-11-04 13:20:50	50.00	5	250.00	5
	5678.00	6	3	6	9	2023-11-04 13:20:50	30.00	3	90.00	6

user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
6	4	2023-11-04 22:03:07	34.00	UPI	completed
8	5	2023-11-04 22:03:07	456.99	credit card	completed
9	6	2023-11-04 22:03:07	345.67	EMI	completed

select*from user left join product2 on user.user_id=product2.product_id left join order1 on user.user_id=order1.order_id left join payment on user.user_id=payment.payment_id;

user_id	username	email	password	address	phone_number	product_id	product_name	about
1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398	1	apple	High-quality smartphone with advanc
2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398	2	T-shirt	Comfortable cotton t-shirt for everyd
4	monty	nitin6@gmail.com	nitin12	kherli	2208398	4	aashirwaad flour	it is best for health
5	mitisha	meet@gmail.com	meet1245	jaipur	56208398	5	dr,seth	best sunscreen
6	vishal	vishal@gmail.com	vish12	kota	8708398	6	gas stoves	for kitchen
7	sohan	sohann6@gmail.com	soh12	alwar	97398	7	indigo flight	book tickets
8	mohit	mohit@gmail.com	mohi12	mumbai	974568398	8	toy car	car for kids
9	rohit	rohit6@gmail.com	rohi12	delhi	978398	9	sumo	for cold
10	lovey	lovey6@gmail.com	love122	gurugram	67808398	10	chair	comfortable
11	mahima	mahima@gmail.com	mahi12	alwar	67808398	11	shoes	comfortable for running

		price	category_id	cart_id	order_id	user_id	order_date	unit_price	quantity	total_amount
▶	ality smartphone with advanced features	500.00	1	1	1	1	2023-11-04 13:20:50	150.00	1	150.00
	table cotton t-shirt for everyday wear	20.00	2	1	2	2	2023-11-04 13:20:50	40.00	4	160.00
	t for health	120.99	4	2	4	6	2023-11-04 13:20:50	10.00	1	10.00
	nscreen	600.00	5	3	5	8	2023-11-04 13:20:50	50.00	5	250.00
	hen	5678.00	6	3	6	9	2023-11-04 13:20:50	30.00	5	90.00
	kets	1000.00	7	4	NULL	NULL	NULL	NULL	NULL	NULL
	kids	345.00	8	5	NULL	NULL	NULL	NULL	NULL	NULL
		23.00	9	6	NULL	NULL	NULL	NULL	NULL	NULL
	table	567.00	10	7	NULL	NULL	NULL	NULL	NULL	NULL
	table for running	459.00	11	6	NULL	NULL	NULL	NULL	NULL	NULL

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
4	6	4	2023-11-04 22:03:07	34.00	UPI	completed
5	8	5	2023-11-04 22:03:07	456.99	credit card	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

select*from user right join product2 on user.user_id=product2.product_id right join order1 on user.user_id=order1.order_id right join payment on user.user_id=payment.payment_id;

	user_id	username	email	password	address	phone_number	product_id	product_name	about
▶	1	Gungun	singhalgungun6@gmail.com	gunnu12	jaipur	9782208398	1	apple	High-quality smartphone with advance
	2	saloni	singhalsaloni6@gmail.com	salo12	kota	2182208398	2	T-shirt	Comfortable cotton t-shirt for everyda
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	4	monty	nitin6@gmail.com	nitin12	kherli	2208398	4	aashirwaad flour	it is best for health
	5	mitisha	meet@gmail.com	meet1245	jaipur	56208398	5	dr,seth	best sunscreen
	6	vishal	vishal@gmail.com	vish12	kota	8708398	6	gas stoves	for kitchen

		price	category_id	cart_id	order_id	user_id	order_date	unit_price	quantity	total_amount	payment_id
▶	hone with advanced features	500.00	1	1	1	1	2023-11-04 13:20:50	150.00	1	150.00	1
	t-shirt for everyday wear	20.00	2	1	2	2	2023-11-04 13:20:50	40.00	4	160.00	2
		NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	3
		120.99	4	2	4	6	2023-11-04 13:20:50	10.00	1	10.00	4
		600.00	5	3	5	8	2023-11-04 13:20:50	50.00	5	250.00	5
		5678.00	6	3	6	9	2023-11-04 13:20:50	30.00	3	90.00	6

user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
4	3	2023-11-04 22:03:07	234.00	netbanking	completed
6	4	2023-11-04 22:03:07	34.00	UPI	completed
8	5	2023-11-04 22:03:07	456.99	credit card	completed
9	6	2023-11-04 22:03:07	345.67	EMI	completed

#SUBQURIES

➕ select *from payment where payment_amount > (select avg(payment_amount)from payment);

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
3	4	3	2023-11-04 22:03:07	234.00	netbanking	completed
5	8	5	2023-11-04 22:03:07	456.99	credit card	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL

➕ select *from payment where payment_amount > (select min(payment_amount)from payment);

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
3	4	3	2023-11-04 22:03:07	234.00	netbanking	completed
5	8	5	2023-11-04 22:03:07	456.99	credit card	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL

➕ SELECT MAX(payment_amount) FROM payment WHERE payment_amount < (SELECT MAX(payment_amount) FROM payment);

MAX(payment_amount)
345.67

➕ SELECT MAX(payment_amount) FROM payment WHERE payment_amount <
SELECT MAX(payment_amount) FROM payment WHERE payment_amount < (SELECT MAX(payment_amount) FROM payment));

MAX(payment_amount)
234.00

select *from payment where payment_amount < (select Max(payment_amount)from payment);

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
3	4	3	2023-11-04 22:03:07	234.00	netbanking	completed
4	6	4	2023-11-04 22:03:07	34.00	UPI	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL

SELECT min(payment_amount) FROM payment WHERE payment_amount > (SELECT min(payment_amount) FROM payment);

min(payment_amount)
123.00

SELECT min(payment_amount) FROM payment WHERE payment_amount >
(SELECT min(payment_amount) FROM payment WHERE payment_amount > (SELECT
min(payment_amount) FROM payment));

min(payment_amount)
170.00

SELECT * FROM Payment
WHERE payment_method IN (SELECT DISTINCT payment_method FROM Payment WHERE paymentStatus
= 'completed');

payment_id	user_id	order_id	payment_date	payment_amount	payment_method	PaymentStatus
1	1	1	2023-11-04 22:03:07	170.00	Credit Card	completed
2	2	2	2023-11-04 22:03:07	123.00	cash on delivery	completed
3	4	3	2023-11-04 22:03:07	234.00	netbanking	completed
4	6	4	2023-11-04 22:03:07	34.00	UPI	completed
5	8	5	2023-11-04 22:03:07	456.99	credit card	completed
6	9	6	2023-11-04 22:03:07	345.67	EMI	completed
NULL	NULL	NULL	NULL	NULL	NULL	NULL

- SELECT payment_id, payment_amount,
  (SELECT MAX(payment_amount) FROM Payment) - payment_amount AS remaining_amount
  FROM Payment;

	payment_id	payment_amount	remaining_amount
▶	1	170.00	286.99
	2	123.00	333.99
	3	234.00	222.99
	4	34.00	422.99
	5	456.99	0.00
	6	345.67	111.32

- SELECT user_id, AVG(payment_amount) AS avg_payment
  FROM Payment p1
  WHERE paymentStatus = 'completed'
  GROUP BY user_id;

	user_id	avg_payment
▶	1	170.000000
	2	123.000000
	4	234.000000
	6	34.000000
	8	456.990000
	9	345.670000

#trigger

- DELIMITER //
  CREATE TRIGGER update_cart_total
  AFTER INSERT ON Product2
  FOR EACH ROW
  BEGIN
  UPDATE Cart1
  SET cart_total = cart_total + NEW.price
  WHERE cart_id = NEW.cart_id;
  END;
  - Inserting a product into the Product2 table
  INSERT INTO Product2 (product_name, about, price, category_id, cart_id)
  VALUES ('Laptop', 'Powerful laptop for productivity', 1200.00, 1, 1);

cart_id	user_id	product_id	quantity	date
1	1	1	2	2023-11-06 18:42:11
2	1	2	3	2023-11-06 18:42:11
3	2	3	1	2023-11-06 18:42:11
4	4	5	3	2023-11-06 18:42:11
5	6	8	4	2023-11-06 18:42:11
6	8	10	2	2023-11-06 18:42:11
7	9	2	1	2023-11-06 18:42:11
NULL	NULL	NULL	NULL	NULL

---THE END--