SQL Assignment -01

1) & 2)

```
create database e_commerce
   show databases
  use e_commerce
  create table Customers(customer_id int auto_increment primary key,name varchar(50),email varchar(50),mobile varchar(15))
  select * from Customers
  create table Products(id int, name varchar(50) not null, description varchar(200), price decimal(10,2) not null, category varchar(50))
 select * from Products
2 15:46:50 create database e_commerce
                                                                                                          1 row(s) affected
    3 15:47:03 show databases
                                                                                                           15 row(s) returned
                                                                                                                                                                                                   00
4 15.51.05 create table Customers(customer_id int auto_increment primary key,name varchar(50),email varchar(50),email varchar(50),mobil... Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name.
                                                                                                                                                                                                   0.0
     5 15:51:24 create database e_commerce
                                                                                                          Error Code: 1007. Can't create database 'e_commerce'; database exists

    6 15:51:52 use e_commerce

                                                                                                                                                                                                   0.0
                                                                                                          0 row(s) affected
       7 15:52:01 create table Customers(customer_id int auto_increment primary key,name varchar(50),email varchar(50),mobil... 0 row(s) affected
                                                                                                                                                                                                   0.0

    8 15:52:19 select *from Customers LIMIT 0, 1000

                                                                                                         0 row(s) returned
      9 15:54:50 create table Products(id int,name varchar(50) not null,description varchar(200),price decimal(10.2) not null,cat... 0 row(s) affected
                                                                                                                                                                                                   0.0

    10 15:55:09 select *from Products LIMIT 0, 1000

                                                                                                                                                                                                   0.0
```

3)

```
alter table Customers modify name varchar(50) not null
alter table Customers modify email varchar(50) not null
alter table Customers add constraint unique(email)
alter table Customers add column age int
alter table Products rename column id to product_id
alter table Products modify product_id int auto_increment primary key
alter table Products modify column description text
```

0	14	16:07:29	alter table Customers modify name varchar(50) not null	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	15	16:08:49	alter table Customers modify email varchar(50) not null	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	16	16:12:13	alter table Customer add constraint unique(email)	Error Code: 1146. Table 'e_commerce.customer' doesn't exist
0	17	16:12:29	alter table Customers add constraint unique(email)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	18	16:13:14	alter table Customers add column age int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	19	16:15:40	alter table Products rename id to product_id	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQ.
0	20	16:16:04	alter table Products rename column id to product_id	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	21	16:19:03	alter table Products modify product_id int auto_increment primary key	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
0	22	16:20:32	alter table Products modify column description varchar(200) to text	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQ.
0	23	16:21:55	alter table Products modify column description text	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

4)

```
206
         use e_commerce
207
         create table `Order`(order_id int auto_increment primary key,customer_id int,product_id int,quantity int not null,
208
         order_date date not null, status enum('Pending', 'Success', 'Cancel'), payment_method enum('Credit', 'Debit', 'UPI'),
         total_amount decimal(10,2) not null,foreign key(customer_id)
209
210
         references Customers(customer_id))
                                       | Edit: 🚄 📆 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🏗
order_id customer_id product_id quantity order_date status payment_method total_amount
NULL
                                                NULL
                              NULL
```

5)

```
alter table `Order` rename to Orders

alter table Orders modify column status enum('pending','success',
    'cencel') default 'pending'
alter table Orders modify column payment_method enum('Credit','Debit','UPI','COD')

alter table Orders add constraint foreign key(product_id)references products(product_id)
```

```
24 16:25:35 alter table 'Order' rename to Orders
25 16:28:16 alter table Orders modify column status enum(pending', 'success', 'cencel') default 'pending'
26 16:31:57 alter table Orders modify column payment_method enum(Credit,'Debit,'UPI',COD')
30 16:38:05 alter table Orders add cinstraint foreign keylproduct_jdlyeference products(product_jd)
31 16:39:36 select "from Orders IMINT 0, 1000
32 16:39:36 select "from Orders IMINT 0, 1000
33 16:39:36 select "from Orders IMINT 0, 1000
34 16:39:36 select "from Orders IMINT 0, 1000
35 16:39:36 select "from Orders IMINT 0, 1000
36 16:39:36 select "from Orders IMINT 0, 1000
37 16:39:36 select "from Orders IMINT 0, 1000
```

6)

```
insert into Customers values(1,"Anshuman","sads@gmail.com",122321,12),(2,"Anshuman","sadas@gmail.com",122321,12),(3,"raman","dfs@gmail.com",122321,12),(5,"Anshuman","sadfs@gmail.com",122321,12),(6,"Anshuman","sadfszfc@gmail.com",122321,12),(7,"Anshuman","safzxvcdfs@gmail.com",122321,12),(8,"Anshuman","sadfs@gmail.com",122321,12),(9,"Ranver","sasadfasfs@gmail.com",122321,12),(10,"illehabadiya","sadxzcfs@gmail.com",122321,12),(11,"Anshuman","sadfs@gmail.com",122321,12),(13,"Anshuman","sazxcdfs@gmail.com",122321,12),(14,"Anshuman","sadfs@gmail.com",122321,12),(15,"Anshuman","sadfs@gmail.com",122321,12),(16,"Anshuman","sadfs@gmail.com",122321,12),(16,"Anshuman","sadfs@gmail.com",122321,12),(16,"Anshuman","sadfs@gmail.com",122321,12),(16,"Anshuman","sadfs@gmail.com",122321,12),(18,"Samay","sfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(20,"Raja","ssadfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha","dfadfs@gmail.com",122321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),(19,"prabha",12321,12),
```

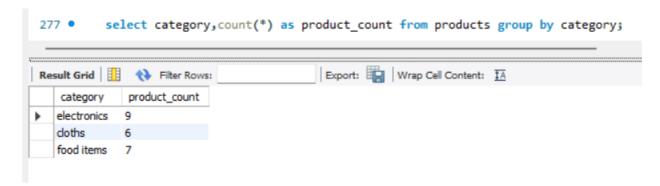
	customer_id	name	email	mobile	age
١	1	Anshuman	sads@gmail.com	122321	12
	2	Anshuman	sadaas@gmail.com	122321	12
	3	raman	dfs@gmail.com	122321	12
	4	Anshu	adfs@gmail.com	122321	12
	5	Anshu	fs@gmail.com	122321	12
	6	Anshuman	sadfszfc@gmail.com	122321	12
	7	Anshuman	safzxvcdfs@gmail.com	122321	12
	8	Anshuman	sadfs@gmail.com	122321	12
	9	Ranver	sasadfasfs@gmail.com	122321	12
	10	illehabadiya	sadxzcfs@gmail.com	122321	12
	11	Anshuman	sadsfs@gmail.com	122321	12
	12	Anshuman	sadfsds@gmail.com	122321	12
	13	Anshuman	sazxcdfs@gmail.com	122321	12
	14	Anshuman	sasdfs@gmail.com	122321	12
	15	Anshuman	sadzxfs@gmail.com	122321	12
	16	Anshuman	sadscfs@gmail.com	122321	12
	17	Mahibji	safdfs@ail.com	122321	12
	18	Samay	sfs@gmail.com	122321	12
	19	prabha	dfadfs@gmail.com	122321	12
	20	Raja	ssadfadfs@gmail.com	122321	12
	NULL	NULL	NULL	NULL	NULL

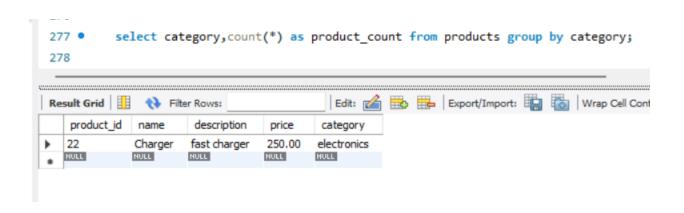
```
insert into Products(name,description,price,category) value("laptop","laptop with fecenating fratures",22000.22,"electronics"),
("mobile","iphone 17 pro max",77000.22,"electronics"),("ear phone","with magenificent features",11000.22,"electronics"),
("coller","buy once you will get adict of it",22000.22,"electronics"),("refrigerator","keeps your thing freash",24000.22,"electronics"),
("fan","always in profit",42000.22,"electronics"),("AC","sleep in lap of namture",22000.22,"electronics"),
("shart","look smarter",2000.22,"cloths"),("pent","be in confort",2100.22,"cloths"),
("macho underware","bada aram sa",2300.22,"cloths"),("t_shert","look like a master",1000.22,"cloths"),
("sari","nari ki sundarta ma char chand lagaya",2200.22,"cloths"),("trauzer","look like a jantel man",2000.22,"cloths"),
("chocklet","feel the fleaver",222,"food items"),("protin","grow yor museles",50000.22,"food items"),
("momose","kahata ki nata",2200.22,"food items"),("paneer","kaiya na",2000.22,"food items"),
("dal","cheaper but stronger",22000.22,"food items"),("rice","125 rupess per kg",125,"food items"),
("banana","issa badkar kuch nahi",220,"food items")
```

	product_id	name	description	price	category
١	1	laptop	laptop with fecenating fratures	22000.22	electronics
	2	laptop	laptop with fecenating fratures	22000.22	electronics
	3	mobile	iphone 17 pro max	77000.22	electronics
	4	ear phone	wiht magenificent features	11000.22	electronics
	5	Coller	buy once you will get adict of it	22000.22	electronics
	6	refrigerator	keeps your thing freash	24000.22	electronics
	7	fan	always in profit	42000.22	electronics
	8	AC	sleep in lap of namture	22000.22	electronics
	9	shart	look smarter	2000.22	doths
	10	pent	be in confort	2100.22	cloths
	11	macho und	bada aram sa	2300.22	cloths
	12	t_shert	look like a master	1000.22	cloths
	13	sari	nari ki sundarta ma char chan	2200.22	cloths
	14	trauzer	look like a jantel man	2000.22	cloths
	15	chocklet	feel the fleaver	222.00	food items
	16	protin	grow yor museles	50000.22	food items
	17	momose	kahata ki nata	2200.22	food items
	18	paneer	kaiya na	2000.22	food items
	19	dal	cheaper but stronger	22000.22	food items
	20	rice	125 rupess per kg	125.00	food items
	21	banana	issa badkar kuch nahi	220.00	food items
	NULL	NULL	NULL	NULL	NULL

```
221
         insert into Orders(customer_id,product_id,quantity,order_date, payment_method,total_amount)
222
         values(1,6,1,'2025-03-12','COD',2213.34),(2,4,7,'2025-02-13','Debit',1345.89),
         (4,6,1,'2025-02-12','Credit',223.34),(13,4,7,'2025-02-13','Debit',231345.89),
223
         (4,6,1,'2025-02-12','Credit',223.34),(7,4,7,'2025-01-23','Credit',13445.89),
224
225
         (14,16,1,'2025-02-01','Credit',222433.34),(12,4,7,'2024-12-13','Debit',13145.89),
         (12,6,1,'2025-01-24','UPI',22312.34),(2,4,7,'2025-02-13','Debit',1345.89),
226
227
         (15,16,9,'2025-01-28','Debit',22323.00),(14,16,2,'2024-05-12','UPI',134.89),
         (18,15,1,'2024-06-19','COD',78223.34),(13,4,7,'2024-09-10','COD',881345.89),
228
         (7,8,9,'2024-04-22','Debit',22311.34),(4,8,1,'2025-02-15','UPI',13453.89),
229
230
         (3,9,11,'2024-02-12','Credit',24423.34)
```

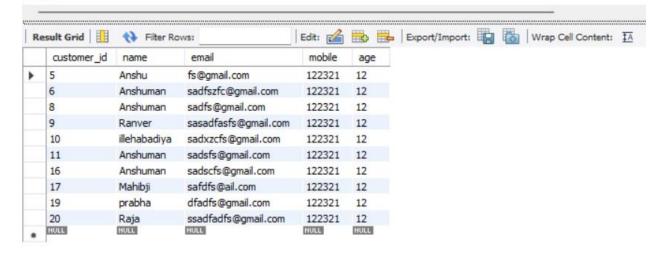
Result (Grid	Filter	Rows:		Edit: 🕍	-	Export/Import:	Wrap Cell Co	ontent: IA
ord	ler_id	customer_id	product_id	quantity	order_date	status	payment_method	total_amount	
1		1	3	2	2025-02-12	success	Credit	1223.34	
2		4	6	1	2025-02-12	pending	Credit	223.34	
3		2	4	7	2025-02-13	pending	Debit	1345.89	
23		1	6	1	2025-03-12	pending	COD	2213.34	
24		2	4	7	2025-02-13	pending	Debit	1345.89	
25		4	6	1	2025-02-12	pending	Credit	223.34	
26		13	4	7	2025-02-13	pending	Debit	231345.89	
27		4	6	1	2025-02-12	pending	Credit	223.34	
28		7	4	7	2025-01-23	pending	Credit	13445.89	
29		14	16	1	2025-02-01	pending	Credit	222433.34	
30		12	4	7	2024-12-13	pending	Debit	13145.89	
31		12	6	1	2025-01-24	pending	UPI	22312.34	
22		2	4	7	2025-02-13	nendina	Dahit	1345 90	



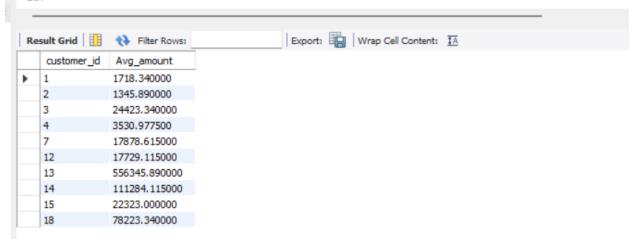




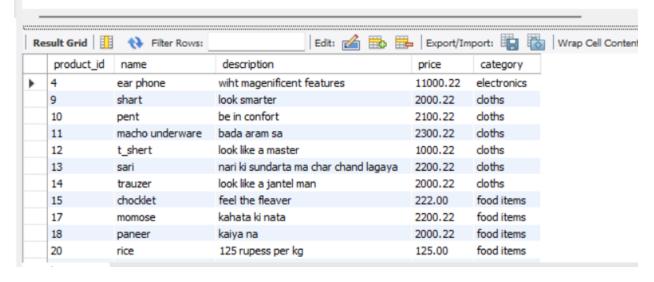
286 • select * from customers where customer_id not in(select customer_id from Orders)
287

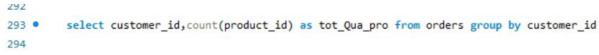


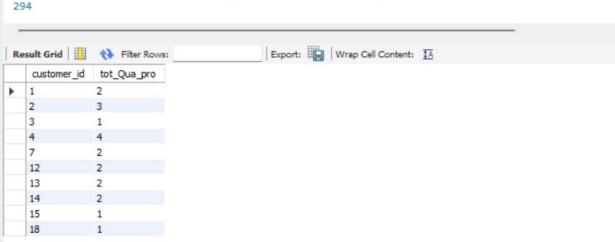
286 • select * from customers where customer_id not in(select customer_id from Orders);
287



291 • select * from products where price < (select avg(price) from products)







```
295
          SELECT orders.order_id, customers.name AS customer_name, products.name AS product_name
296
         FROM orders
297
         JOIN customers ON orders.customer_id = customers.customer_id
         JOIN products ON orders.product_id = products.product_id;
298
299
                                            Export: Wrap Cell Content: TA
order_id customer_name
                          product_name
           Anshuman
                          mobile
           Anshu
                          refrigerator
  2
           Anshuman
                          ear phone
  3
  23
           Anshuman
                          refrigerator
  24
           Anshuman
                          ear phone
  25
           Anshu
                          refrigerator
  26
           Anshuman
                          ear phone
  27
           Anshu
                          refrigerator
           Anshuman
                          ear phone
  29
           Anshuman
                          protin
  30
           Anshuman
                          ear phone
  31
           Anshuman
                          refrigerator
  32
           Anshuman
                          ear phone
  33
           Anshuman
                          protin
  34
           Anshuman
                          protin
  35
           Samay
                          chocklet
  36
           Anshuman
                          ear phone
  37
           Anshuman
                          AC
  38
           Anshu
                          AC
  39
                          shart
           raman
```

