Anshuman Mahajan   anshumanmahajan169@gmail.com

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	0.0
✓	3 15:47:03	show databases	15 row(s) returned	0.0
✗	4 15:51:05	create table Customers(customer_id int auto_increment primary key,name varchar(50),email varchar(50),mobil...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the ...	0.0
✗	5 15:51:24	create database e_commerce	Error Code: 1007. Can't create database 'e_commerce'; database exists	0.0
✓	6 15:51:52	use e_commerce	0 row(s) affected	0.0
✓	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	0.0
✓	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 row(s) returned	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
```

✓	14 16:07:29	alter table Customers modify name varchar(50) not null	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓	15 16:08:49	alter table Customers modify email varchar(50) not null	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✗	16 16:12:13	alter table Customer add constraint unique(email)	Error Code: 1146. Table 'e_commerce.customer' doesn't exist
✓	17 16:12:29	alter table Customers add constraint unique(email)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓	18 16:13:14	alter table Customers add column age int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 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...
✓	20 16:16:04	alter table Products rename column id to product_id	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 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
✗	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...
✓	23 16:21:55	alter table Products modify column description text	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

4)

```
205
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'),
209    total_amount decimal(10,2) not null,foreign key(customer_id)
210    references Customers(customer_id))
```

Result Grid		↔ Filter Rows:			Edit:			Export/Import:			Wrap Cell Content:

order_id	customer_id	product_id	quantity	order_date	status	payment_method	total_amount
NULL	NULL	NULL	NULL	NULL	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	0 row(s) affected
✓	25	16:28:16	alter table Orders modify column status enum('pending','success', 'cencel') default 'pending'	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓	26	16:31:57	alter table Orders modify column payment_method enum('Credit','Debit','UPI','COD')	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✗	27	16:38:05	alter table Orders add cinstraint foreign key(product_id)reference products(product_id)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server
✗	28	16:38:29	alter table Orders add cinstraint foreign key(product_id)references products(product_id)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server
✓	29	16:39:23	alter table Orders add constraint foreign key(product_id)references products(product_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓	30	16:39:36	select * from Orders LIMIT 0, 1000	0 row(s) returned

6)

```
insert into Customers values(1,"Anshuman","sads@gmail.com",122321,12),(2,"Anshuman","sadaas@gmail.com",122321,12),(3,"raman","dfs@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)
select * from Customers
```

customer_id	name	email	mobile	age
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","wiht 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")
select * from products
```

product_id	name	description	price	category
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	cloths
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),
223   (4,6,1,'2025-02-12','Credit',223.34),(13,4,7,'2025-02-13','Debit',231345.89),
224   (4,6,1,'2025-02-12','Credit',223.34),(7,4,7,'2025-01-23','Credit',13445.89),
225   (14,16,1,'2025-02-01','Credit',222433.34),(12,4,7,'2024-12-13','Debit',13145.89),
226   (12,6,1,'2025-01-24','UPI',22312.34),(2,4,7,'2025-02-13','Debit',1345.89),
227   (15,16,9,'2025-01-28','Debit',22323.00),(14,16,2,'2024-05-12','UPI',134.89),
228   (18,15,1,'2024-06-19','COD',78223.34),(13,4,7,'2024-09-10','COD',881345.89),
229   (7,8,9,'2024-04-22','Debit',22311.34),(4,8,1,'2025-02-15','UPI',13453.89),
230   (3,9,11,'2024-02-12','Credit',24423.34)
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ⫶A

order_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
32	2	4	7	2025-02-13	pending	Debit	1345.89

7)

```
277 •     select category,count(*) as product_count from products group by category;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

category	product_count
electronics	9
cloths	6
food items	7

```
277 •     select category,count(*) as product_count from products group by category;
278
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Cont

product_id	name	description	price	category
22	Charger	fast charger	250.00	electronics
NULL	NULL	NULL	NULL	NULL

```
282 •     select * from products where category="electronics" order by price desc limit 5 offset 2;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA | Fetch rows

product_id	name	description	price	category
6	refrigerator	keeps your thing freash	24000.22	electronics
1	laptop	laptop with fecenating fratures	22000.22	electronics
2	laptop	laptop with fecenating fratures	22000.22	electronics
5	Coller	buy once you will get adict of it	22000.22	electronics
8	AC	sleep in lap of namture	22000.22	electronics
NULL	NULL	NULL	NULL	NULL

```
285
286 •    select * from customers where customer_id not in(select customer_id from Orders)
287
```

customer_id	name	email	mobile	age
5	Anshu	fs@gmail.com	122321	12
6	Anshuman	sadfszfc@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
16	Anshuman	sadscfs@gmail.com	122321	12
17	Mahibji	safdfs@ail.com	122321	12
19	prabha	dfadfs@gmail.com	122321	12
20	Raja	ssadfadfs@gmail.com	122321	12
NULL	NULL	NULL	NULL	NULL

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

customer_id	Avg_amount
1	1718.340000
2	1345.890000
3	24423.340000
4	3530.977500
7	17878.615000
12	17729.115000
13	556345.890000
14	111284.115000
15	22323.000000
18	78223.340000

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

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content

product_id	name	description	price	category
4	ear phone	wiht magenificent features	11000.22	electronics
9	shart	look smarter	2000.22	cloths
10	pent	be in confort	2100.22	cloths
11	macho underware	bada aram sa	2300.22	cloths
12	t_shert	look like a master	1000.22	cloths
13	sari	nari ki sundarta ma char chand lagaya	2200.22	cloths
14	trauzer	look like a jantel man	2000.22	cloths
15	chocklet	feel the fleaver	222.00	food items
17	momose	kahata ki nata	2200.22	food items
18	paneer	kaiya na	2000.22	food items
20	rice	125 rupess per kg	125.00	food items

```sql
292
293 •     select customer_id,count(product_id) as tot_Qua_pro from orders group by customer_id
294
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

customer_id	tot_Qua_pro
1	2
2	3
3	1
4	4
7	2
12	2
13	2
14	2
15	1
18	1

```
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
298      JOIN products ON orders.product_id = products.product_id;
299      |
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

order_id	customer_name	product_name
1	Anshuman	mobile
2	Anshu	refrigerator
3	Anshuman	ear phone
23	Anshuman	refrigerator
24	Anshuman	ear phone
25	Anshu	refrigerator
26	Anshuman	ear phone
27	Anshu	refrigerator
28	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	raman	shart

```
300 •    select * from products where product_id not in(select product_id from orders);|
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

product_id	name	description	price	category
1	laptop	laptop with fecenating fratures		
2	laptop	laptop with fecenating fratures	22000.22	electronics
5	Coller	buy once you will get adict of it	22000.22	electronics
7	fan	always in profit	42000.22	electronics
10	pent	be in confort	2100.22	cloths
11	macho underware	bada aram sa	2300.22	cloths
12	t_shert	look like a master	1000.22	cloths
13	sari	nari ki sundarta ma char chand lagaya	2200.22	cloths
14	trauzer	look like a jantel man	2000.22	cloths
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
22	Charger	fast charger	250.00	electronics
NULL	NULL	NULL	NULL	NULL

Delete selected rows