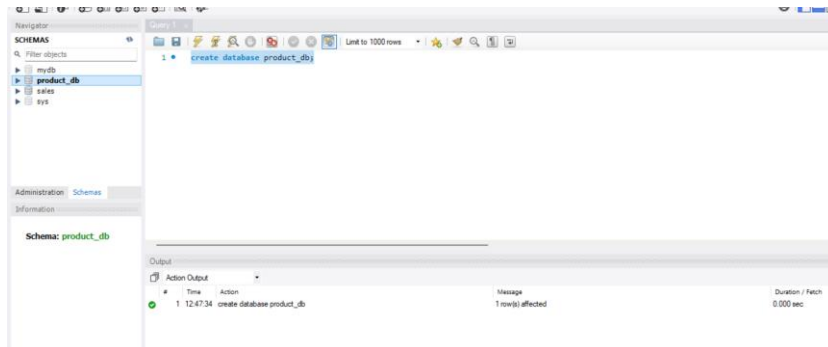


Task 2 – SQL Basics- 30-07-2023

Question 1:

Create a Database product_db

Output:



Query:

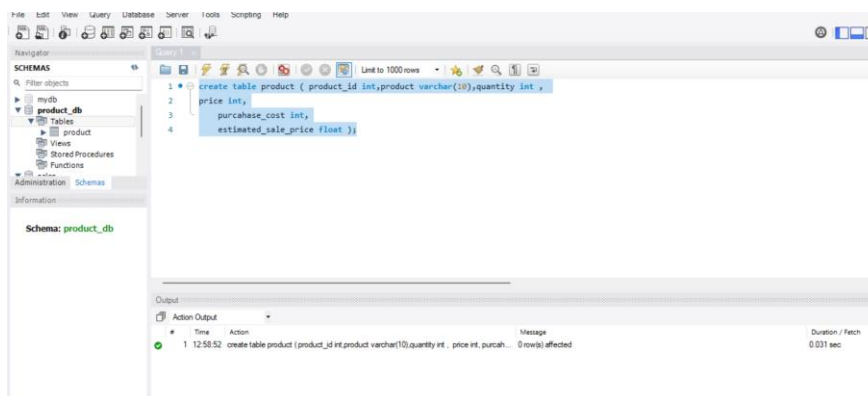
create database product_db;

Question 2:

Create a table with the name "product" with the following columns

product_id - integer ,product - string - size 10,quantity - integer,price - integer,purchase_cost – integer , estimated_sale_price – float

Output:



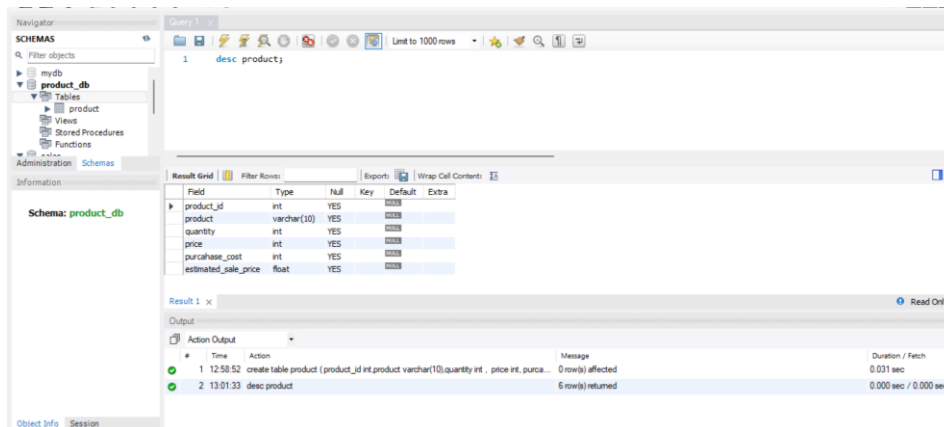
Query :

create table product (product_id int,product varchar(10),quantity int ,
price int,
purchase_cost int, estimated_sale_price float);

Question 3:

Display all column names and their datatype and size in product.

Output:



Field	Type	Null	Key	Default	Extra
product_id	int	YES			
product	varchar(10)	YES			
quantity	int	YES			
price	int	YES			
purchase_cost	int	YES			
estimated_sale_price	float	YES			

#	Time	Action	Message	Duration / Fetch
1	12:58:52	create table product (product_id int,product varchar(10),quantity int , price int ,purcha...	0 row(s) affected	0.031 sec
2	13:01:33	desc product	6 row(s) returned	0.000 sec / 0.000 sec

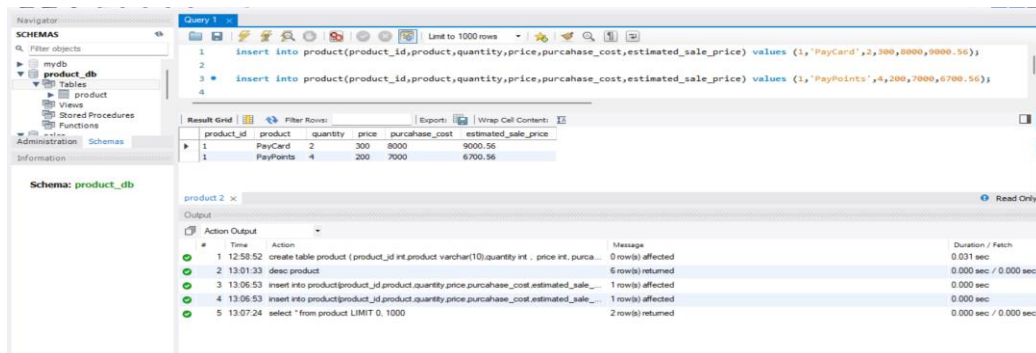
Query:

```
desc product;
```

Question 4:

Insert the below two records into product table.

Output:



product_id	product	quantity	price	purchase_cost	estimated_sale_price
1	PayCard	2	300	8000	9000.56
1	PayPoints	4	200	7000	6700.56

#	Time	Action	Message	Duration / Fetch
1	12:58:52	create table product (product_id int,product varchar(10),quantity int , price int ,purcha...	0 row(s) affected	0.031 sec
2	13:01:33	desc product	6 row(s) returned	0.000 sec / 0.000 sec
3	13:06:53	insert into product(product_id,product,quantity,price,purchase_cost,estimated_sale_pri...	1 row(s) affected	0.000 sec
4	13:06:53	insert into product(product_id,product,quantity,price,purchase_cost,estimated_sale_pri...	1 row(s) affected	0.000 sec
5	13:07:24	select *from product LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query:

```
insert into
product(product_id,product,quantity,price,purchase_cost,estimated_sale_pri
ce) values (1,'PayCard',2,300,8000,9000.56);

insert into
product(product_id,product,quantity,price,purchase_cost,estimated_sale_pri
ce) values (2,'PayPoints',4,200,7000,6700.56);
```

Question 5:

Add a column: "location" to the existing product table with data type varchar and size 50

Output:

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'product_db' expanded. The right pane shows the 'Query 1' window with the following SQL script:

```
1 Alter table product add column location varchar(50);
2
3 select * from product
```

The 'Result Grid' shows the output of the 'select * from product' query:

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
1	PayCard	2	300	8000	9000.56	
2	PayPoints	4	200	7000	6700.56	

The 'Messages' pane shows the execution of the 'Alter table' statement:

Time	Action	Message	Duration / Patch
13:05:52	Alter table product (product_id varchar(10), quantity int, price int, purchase_cost int, estimated_sale_price int) add column location varchar(50);	0 rows affected	0:00:00
13:05:53	select * from product	2 rows returned	0:00:00 / 0:00:00

Query;

Alter table product add column location varchar(50);

Question 6:

Update the value of the location

Output:

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'product_db' expanded. The right pane shows the 'Query 1' window with the following SQL script:

```
1 update product set location = 'USA' where product_id = 1;
2 update product set location = 'India' where product_id = 2;
3
4 select * from product
```

The 'Result Grid' shows the output of the 'select * from product' query:

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
1	PayCard	2	300	8000	9000.56	USA
2	PayPoints	4	200	7000	6700.56	India

Query:

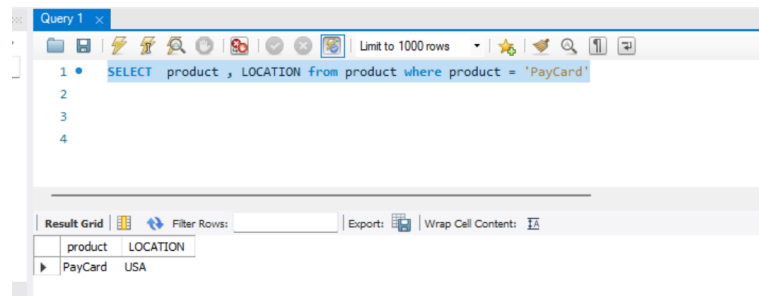
update product set location = 'USA' where product_id = 1;

update product set location = 'India' where product_id = 2;

Question 7:

What is the value of location for product : 'PayCard'?

Output:



The screenshot shows a SQL query editor with the query: `SELECT product , LOCATION from product where product = 'PayCard'`. Below the query, the results are displayed in a table with two columns: 'product' and 'LOCATION'. The single row shows 'PayCard' and 'USA'.

product	LOCATION
PayCard	USA

Query –

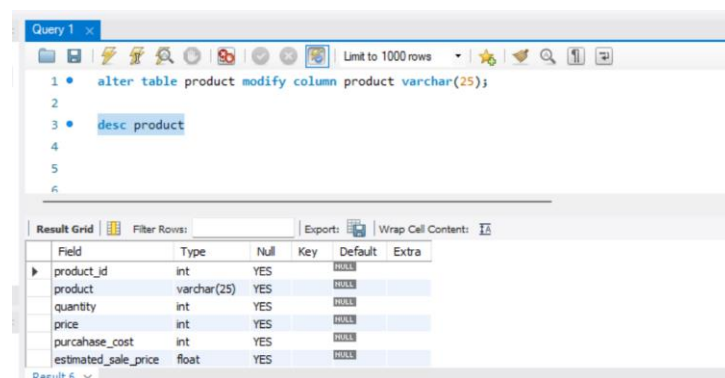
```
SELECT product , LOCATION from product where product = 'PayCard'
```

=====

Question 8:

update the product column to size of 25

Output:



The screenshot shows a SQL query editor with two queries: `alter table product modify column product varchar(25);` and `desc product`. Below the queries, the results are displayed in a table with columns: Field, Type, Null, Key, Default, and Extra. The table shows the structure of the 'product' table, including columns like 'product_id', 'product', 'quantity', 'price', 'purchase_cost', and 'estimated_sale_price'.

Field	Type	Null	Key	Default	Extra
product_id	int	YES		NULL	
product	varchar(25)	YES		NULL	
quantity	int	YES		NULL	
price	int	YES		NULL	
purchase_cost	int	YES		NULL	
estimated_sale_price	float	YES		NULL	

Query:

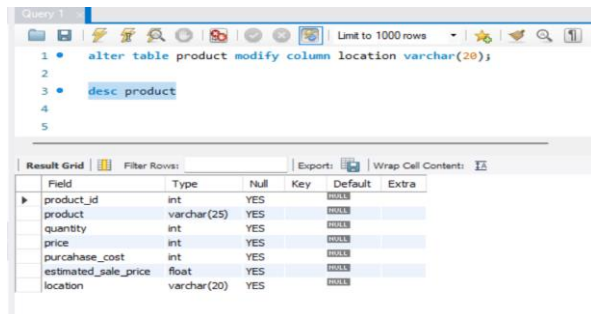
```
alter table product modify column product varchar(25);
```

=====

Question 9:

Reduce the size of the location field from 50 to 20 and check if it is possible.

Output:



Query 1

```
1 • alter table product modify column location varchar(20);
2
3 • desc product
4
5
```

Result Grid

Field	Type	Null	Key	Default	Extra
product_id	int	YES			
product	varchar(25)	YES			
quantity	int	YES			
price	int	YES			
purchase_cost	int	YES			
estimated_sale_price	float	YES			
location	varchar(20)	YES			

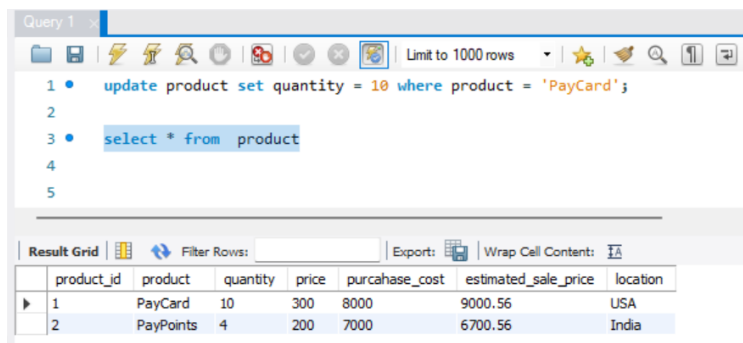
Query:

```
alter table product modify column location varchar(20);
```

Question 10:

Update the quantity information of 'PayCard' product details . -- For 'PayCard' product, Update the quantity from 2 to 10

Output:



Query 1

```
1 • update product set quantity = 10 where product = 'PayCard';
2
3 • select * from product
4
5
```

Result Grid

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
1	PayCard	10	300	8000	9000.56	USA
2	PayPoints	4	200	7000	6700.56	India

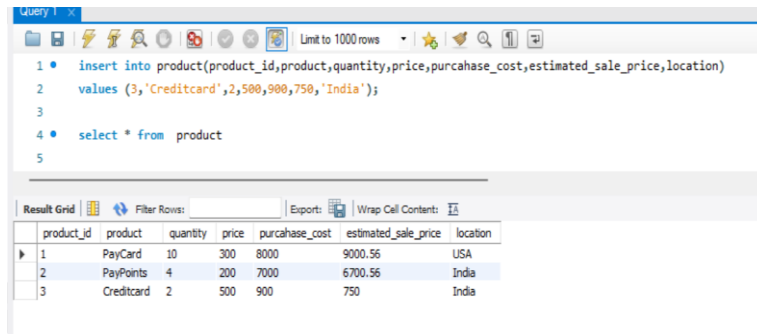
Query:

```
update product set quantity = 10 where product = 'PayCard';
```

Question 11:

insert one more row/record to the table

Output:



The screenshot shows a SQL query editor with the following query:

```
1 • insert into product(product_id,product,quantity,price,purchase_cost,estimated_sale_price,location)
2   values (3,'Creditcard',2,500,900,750,'India');
3
4 • select * from product
5
```

The result grid below the query shows the following data:

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
1	PayCard	10	300	8000	9000.56	USA
2	PayPoints	4	200	7000	6700.56	India
3	Creditcard	2	500	900	750	India

Query:

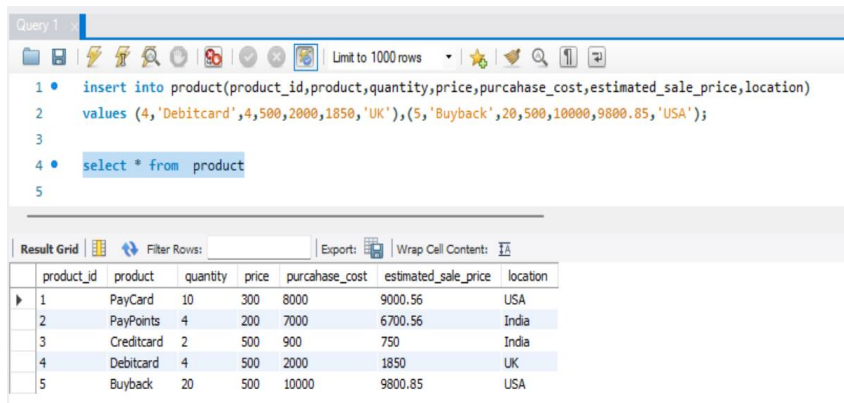
insert into

product(product_id,product,quantity,price,purchase_cost,estimated_sale_price,location) values (3,'Creditcard',2,500,900,750,'India');

Question 12:

insert below two row/record to the table by using one query

Output:



The screenshot shows a SQL query editor with the following query:

```
1 • insert into product(product_id,product,quantity,price,purchase_cost,estimated_sale_price,location)
2   values (4,'Debitcard',4,500,2000,1850,'UK'),(5,'Buyback',20,500,10000,9800.85,'USA');
3
4 • select * from product
5
```

The result grid below the query shows the following data:

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
1	PayCard	10	300	8000	9000.56	USA
2	PayPoints	4	200	7000	6700.56	India
3	Creditcard	2	500	900	750	India
4	Debitcard	4	500	2000	1850	UK
5	Buyback	20	500	10000	9800.85	USA

Query:

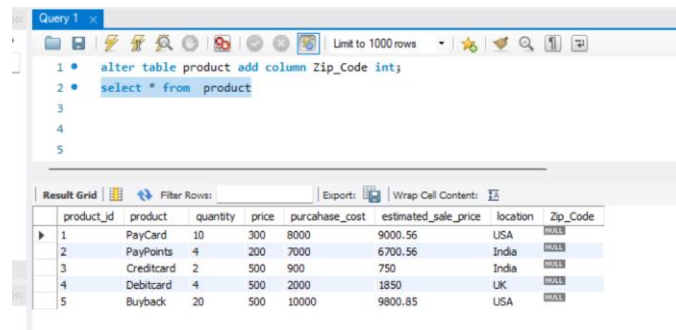
insert into

product(product_id,product,quantity,price,purchase_cost,estimated_sale_price,location) values
(4,'Debitcard',4,500,2000,1850,'UK'),(5,'Buyback',20,500,10000,9800.85,'USA');

Question 13:

add a column zip_code to the product table

Output



```
1 • alter table product add column Zip_Code int;
2 • select * from product
3
4
5
```

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location	Zip_Code
1	PayCard	10	300	8000	9000.56	USA	null
2	PayPoints	4	200	7000	6700.56	India	null
3	Creditcard	2	500	900	750	India	null
4	Debitcard	4	500	2000	1850	UK	null
5	Buyback	20	500	10000	9800.85	USA	null

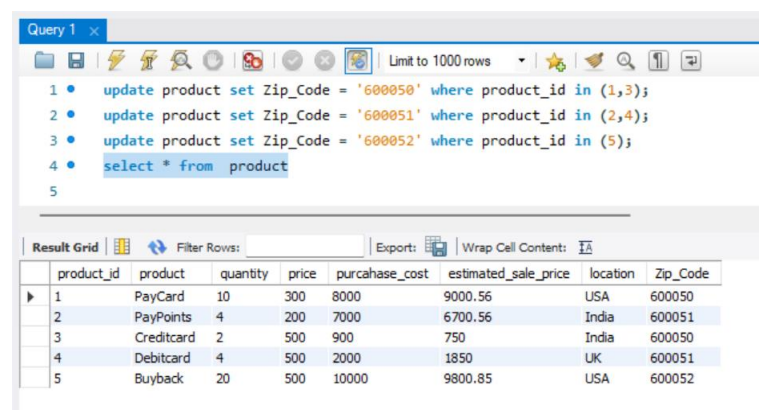
Query:

```
alter table product add column Zip_Code int;
```

Question 14:

update zip_code to the product table by some random unique zip code to the product

Output:



```
1 • update product set Zip_Code = '600050' where product_id in (1,3);
2 • update product set Zip_Code = '600051' where product_id in (2,4);
3 • update product set Zip_Code = '600052' where product_id in (5);
4 • select * from product
5
```

product_id	product	quantity	price	purchase_cost	estimated_sale_price	location	Zip_Code
1	PayCard	10	300	8000	9000.56	USA	600050
2	PayPoints	4	200	7000	6700.56	India	600051
3	Creditcard	2	500	900	750	India	600050
4	Debitcard	4	500	2000	1850	UK	600051
5	Buyback	20	500	10000	9800.85	USA	600052

Query:

```
update product set Zip_Code = '600050' where product_id in (1,3);
```

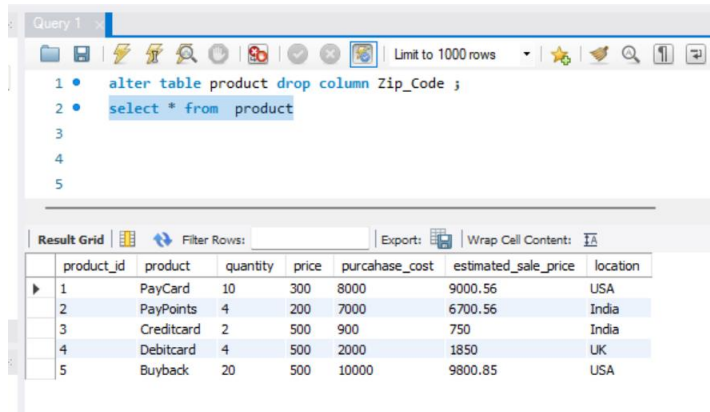
```
update product set Zip_Code = '600051' where product_id in (2,4);
```

```
update product set Zip_Code = '600052' where product_id in (5);
```

Question 15:

drop the column zip_code from the table

Output:



Query 1

```
1 • alter table product drop column Zip_Code ;  
2 • select * from product  
3  
4  
5
```

Result Grid

	product_id	product	quantity	price	purchase_cost	estimated_sale_price	location
▶	1	PayCard	10	300	8000	9000.56	USA
	2	PayPoints	4	200	7000	6700.56	India
	3	Creditcard	2	500	900	750	India
	4	Debitcard	4	500	2000	1850	UK
	5	Buyback	20	500	10000	9800.85	USA

Query:

```
alter table product drop column Zip_Code ;
```

=====THE END=====