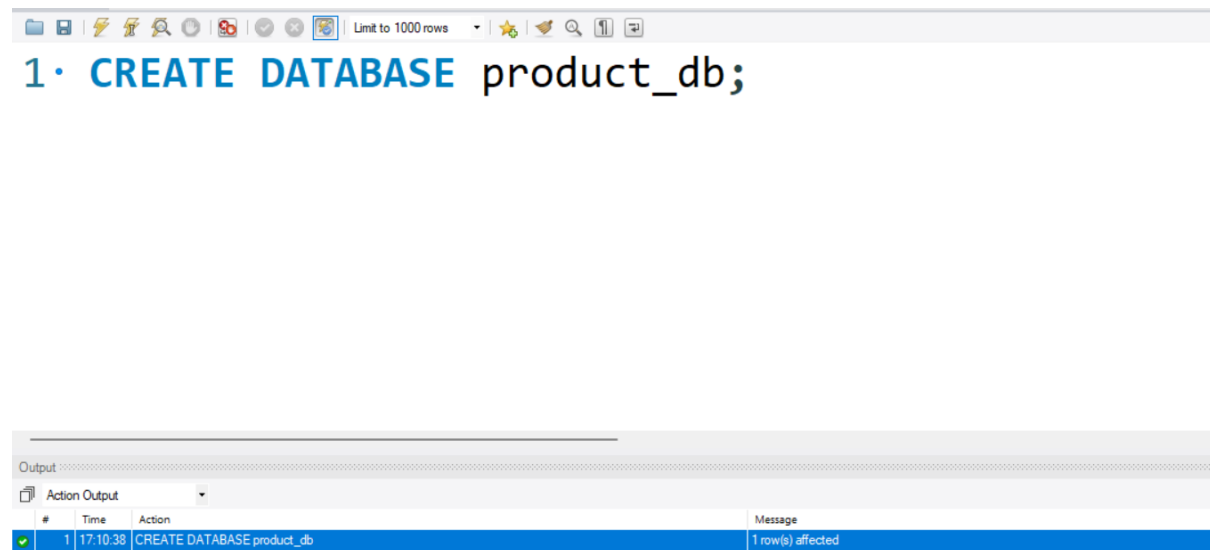


SESSION 1_TASK

Question 1:

Create a Database product_db.

ANSWER



The screenshot shows a database management tool interface. At the top, there is a toolbar with various icons and a dropdown menu set to "Limit to 1000 rows". Below the toolbar, the SQL editor contains the command: `1 • CREATE DATABASE product_db;`. The output pane at the bottom shows a table with columns: #, Time, Action, and Message. The first row indicates that the command was successful, with the message "1 row(s) affected".

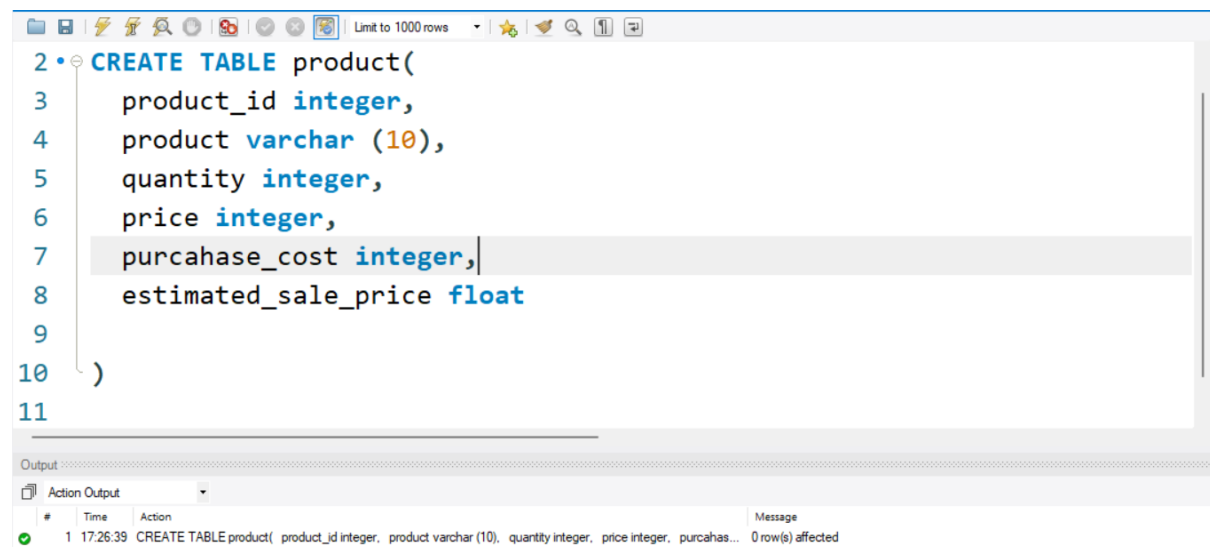
#	Time	Action	Message
1	17:10:38	CREATE DATABASE product_db	1 row(s) affected

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

ANSWERS



The screenshot shows a database management tool interface. The SQL editor contains the command: `2 • CREATE TABLE product(
3 product_id integer,
4 product varchar (10),
5 quantity integer,
6 price integer,
7 purchase_cost integer,
8 estimated_sale_price float
9)
10)
11`. The output pane at the bottom shows a table with columns: #, Time, Action, and Message. The first row indicates that the command was successful, with the message "0 row(s) affected".

#	Time	Action	Message
1	17:26:39	CREATE TABLE product(product_id integer, product varchar (10), quantity integer, price integer, purchas...	0 row(s) affected

Question 3:

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

ANSWERS

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Schemas' pane is expanded to show the 'product' table. The 'Columns' pane for the 'product' table lists the following columns: product_id (int), product (varchar(10)), quantity (int), price (int), purchase_cost (int), and estimated_sale_price (float). The 'Table: product' section at the bottom left also lists these columns with their data types and sizes.

In the center, the SQL query editor shows the command: `SHOW COLUMNS FROM product;`

Below the query editor, the 'Result Grid' displays the output of the command. The table has 6 columns: Field, Type, Null, Key, Default, and Extra. The rows are:

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

At the bottom, the 'Output' pane shows the message: 'SHOW COLUMNS FROM product' and '6 row(s) returned'.

Question 4:

Insert the below two records into product table .

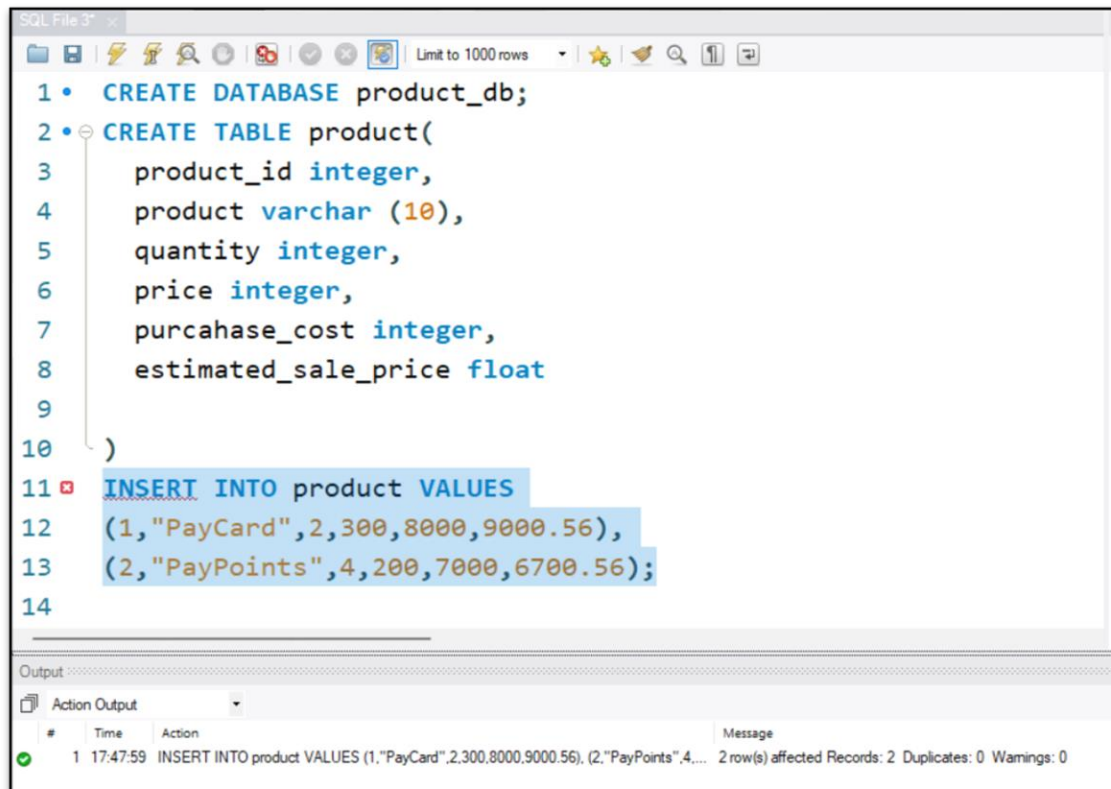
-- 1st record with values

- product_id : 1
- Product : PayCard
- Quantity: 2
- price : 300
- Purchase_cost : 8000
- estimated_sale_price: 9000.56

-- 2nd record with values --

- product_id : 2
- Product : PayPoints
- Quantity: 4
- price : 200
- Purchase_cost : 7000
- estimated_sale_price: 6700.56

ANSWERS



```
1 • CREATE DATABASE product_db;
2 • CREATE TABLE product(
3     product_id integer,
4     product varchar (10),
5     quantity integer,
6     price integer,
7     purchase_cost integer,
8     estimated_sale_price float
9
10 )
11 • INSERT INTO product VALUES
12 (1,"PayCard",2,300,8000,9000.56),
13 (2,"PayPoints",4,200,7000,6700.56);
14
```

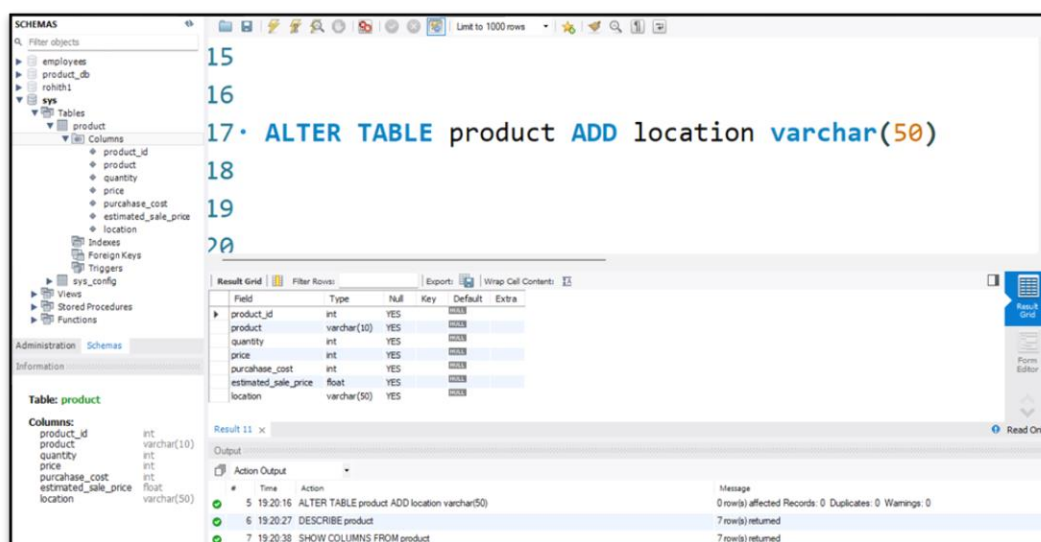
Output

#	Time	Action	Message
1	17:47:59	INSERT INTO product VALUES (1,"PayCard",2,300,8000,9000.56), (2,"PayPoints",4,200,7000,6700.56);	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0

Question 5:

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

ANSWERS



```
15
16
17 • ALTER TABLE product ADD location varchar(50)
18
19
20
```

Result Grid

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			
location	varchar(50)	YES			

Result 11 x

#	Time	Action	Message
5	19:20:16	ALTER TABLE product ADD location varchar(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
6	19:20:27	DESCRIBE product	7 row(s) returned
7	19:20:38	SHOW COLUMNS FROM product	7 row(s) returned

Table: product

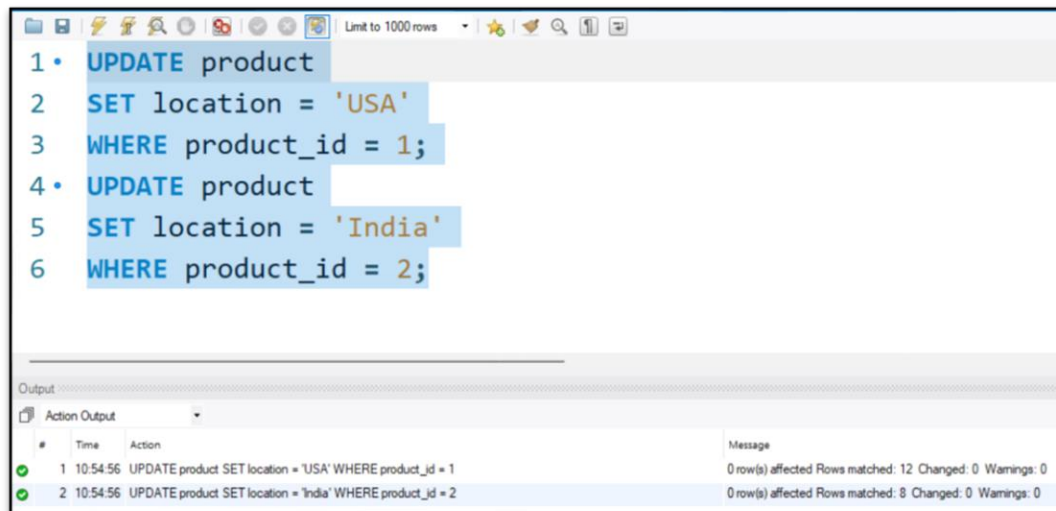
Columns:	
product_id	int
product	varchar(10)
quantity	int
price	int
purchase_cost	int
estimated_sale_price	float
location	varchar(50)

Question 6:

Update the value of the location

- update location as USA for product_id = 1
- update location as India for product_id = 2

ANSWERS



```
1 • UPDATE product
2   SET location = 'USA'
3   WHERE product_id = 1;
4 • UPDATE product
5   SET location = 'India'
6   WHERE product_id = 2;
```

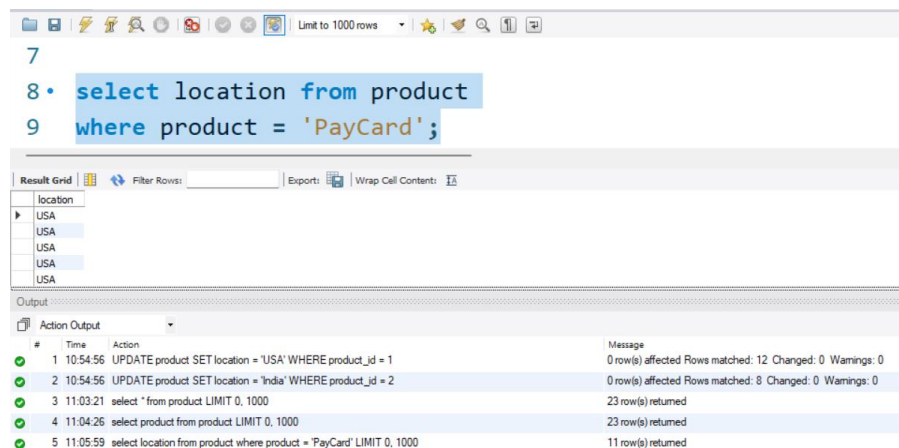
Output

#	Time	Action	Message
1	10:54:56	UPDATE product SET location = 'USA' WHERE product_id = 1	0 row(s) affected Rows matched: 12 Changed: 0 Warnings: 0
2	10:54:56	UPDATE product SET location = 'India' WHERE product_id = 2	0 row(s) affected Rows matched: 8 Changed: 0 Warnings: 0

Question 7:

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

ANSWERS



```
7
8 • select location from product
9   where product = 'PayCard';
```

Result Grid

location
USA
USA
USA
USA
USA

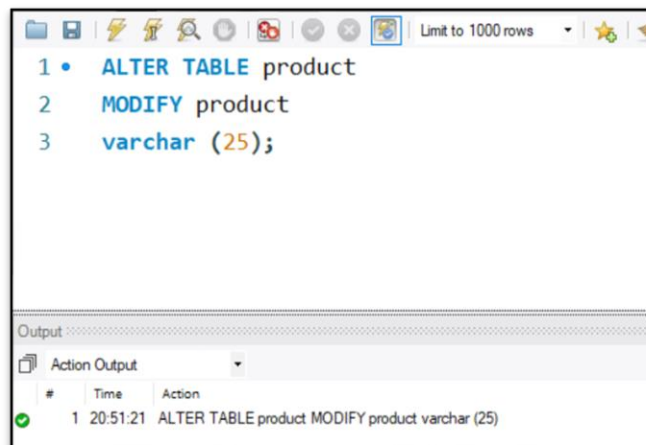
Output

#	Time	Action	Message
1	10:54:56	UPDATE product SET location = 'USA' WHERE product_id = 1	0 row(s) affected Rows matched: 12 Changed: 0 Warnings: 0
2	10:54:56	UPDATE product SET location = 'India' WHERE product_id = 2	0 row(s) affected Rows matched: 8 Changed: 0 Warnings: 0
3	11:03:21	select * from product LIMIT 0, 1000	23 row(s) returned
4	11:04:26	select product from product LIMIT 0, 1000	23 row(s) returned
5	11:05:59	select location from product where product = 'PayCard' LIMIT 0, 1000	11 row(s) returned

Question 8:

update the product column to size of 25

ANSWERS



```
1 • ALTER TABLE product
2   MODIFY product
3   varchar (25);
```

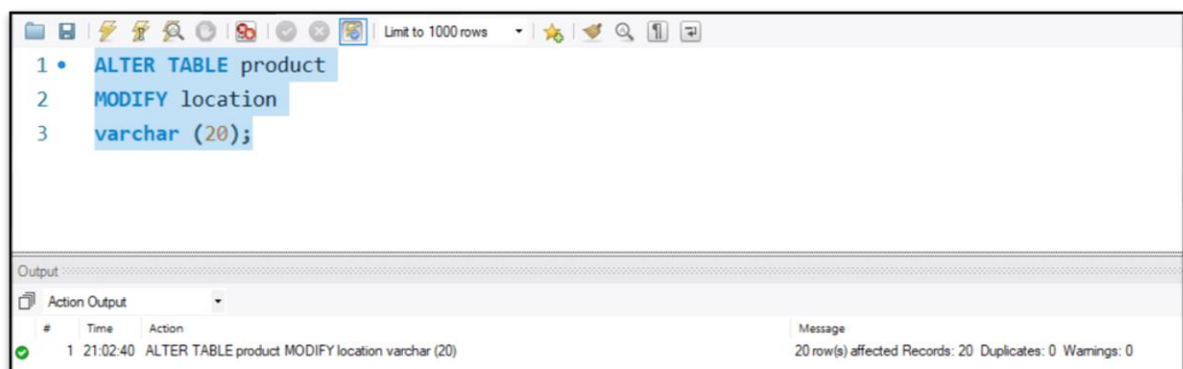
Output

#	Time	Action
1	20:51:21	ALTER TABLE product MODIFY product varchar (25)

Question 9:

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

ANSWERS



```
1 • ALTER TABLE product
2   MODIFY location
3   varchar (20);
```

Output

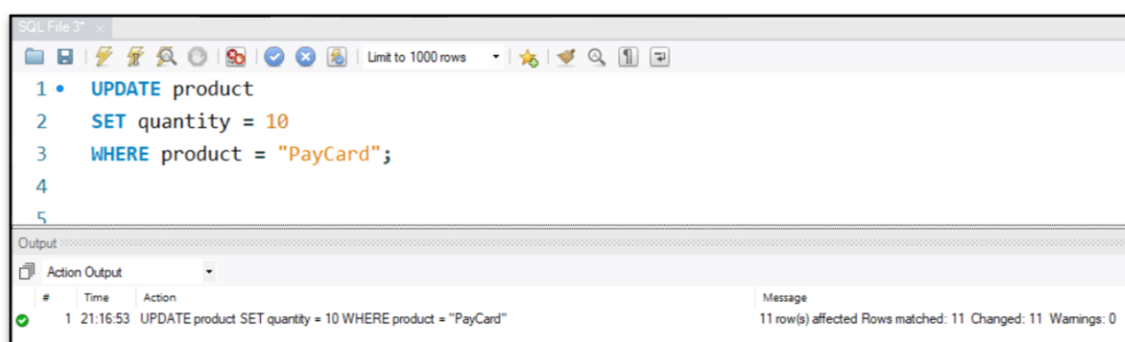
#	Time	Action	Message
1	21:02:40	ALTER TABLE product MODIFY location varchar (20)	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0

Question 10:

Update the quantity information of 'PayCard' product details .

-- For 'PayCard' product, Update the quantity from 2 to 10

ANSWERS



```
1 • UPDATE product
2   SET quantity = 10
3   WHERE product = "PayCard";
4
5
```

Output

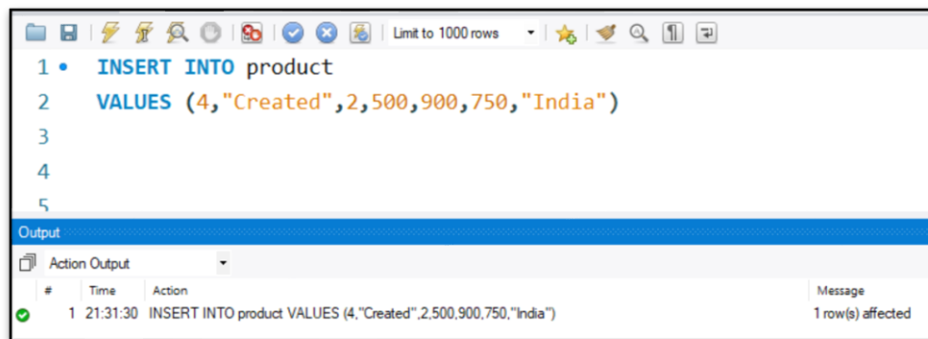
#	Time	Action	Message
1	21:16:53	UPDATE product SET quantity = 10 WHERE product = "PayCard"	11 row(s) affected Rows matched: 11 Changed: 11 Warnings: 0

Question 11:

insert one more row/record to the table
record with values

```
-- product_id : 4  
-- Product : Creditcard  
-- Quantity: 2  
-- price : 500  
-- Puchase_cost : 900  
-- estimated_sale_price: 750  
-- location : India
```

ANSWERS



Question 12:

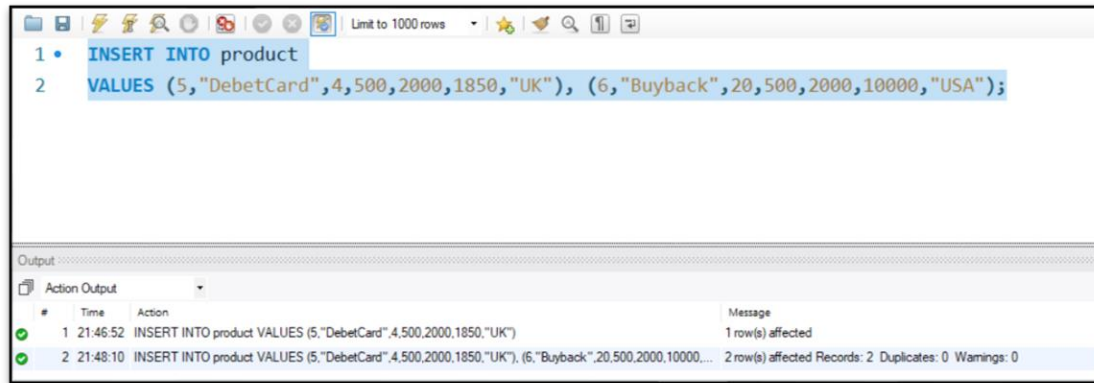
insert below two row/record to the table by using one query
record with values

- 1)

```
-- product_id : 5  
-- Product : debitcard  
-- Quantity: 4  
-- price : 500  
-- Puchase_cost : 2000  
-- estimated_sale_price: 1850  
-- location : UK
```
- 2)

```
-- product_id : 6  
-- Product : buyback  
-- Quantity: 20  
-- price : 500  
-- Puchase_cost : 10000  
-- estimated_sale_price: 9800.95  
-- location : USA
```

ANSWERS



```
1 • INSERT INTO product
2 VALUES (5,"DebetCard",4,500,2000,1850,"UK"), (6,"Buyback",20,500,2000,10000,"USA");
```

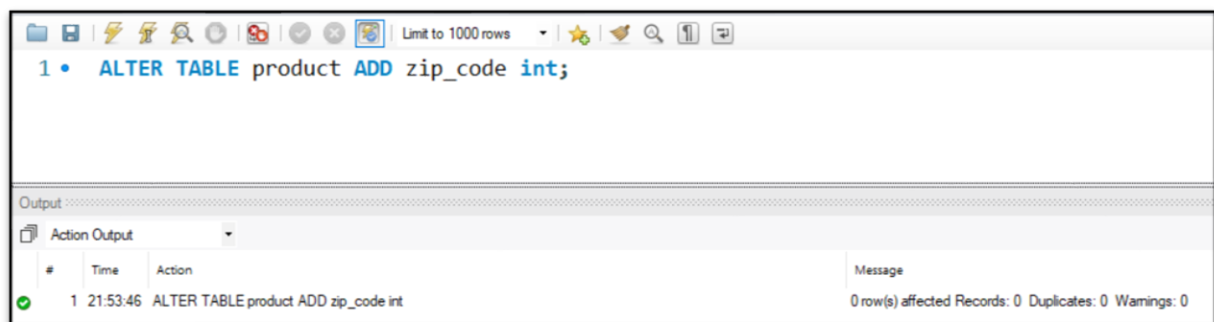
Output

#	Time	Action	Message
1	21:46:52	INSERT INTO product VALUES (5,"DebetCard",4,500,2000,1850,"UK")	1 row(s) affected
2	21:48:10	INSERT INTO product VALUES (5,"DebetCard",4,500,2000,1850,"UK"), (6,"Buyback",20,500,2000,10000,"USA")	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0

Question 13:

add a column zip_code to the product table

ANSWERS



```
1 • ALTER TABLE product ADD zip_code int;
```

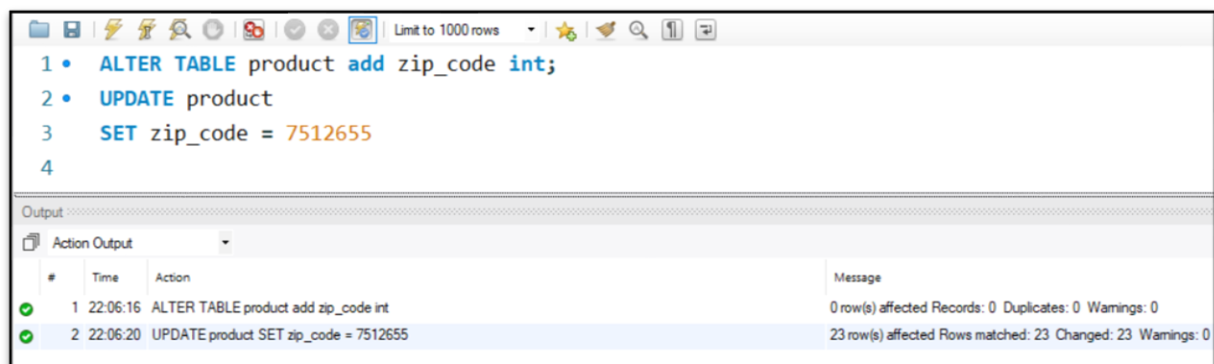
Output

#	Time	Action	Message
1	21:53:46	ALTER TABLE product ADD zip_code int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Question 14:

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

ANSWER



```
1 • ALTER TABLE product add zip_code int;
2 • UPDATE product
3 SET zip_code = 7512655
4
```

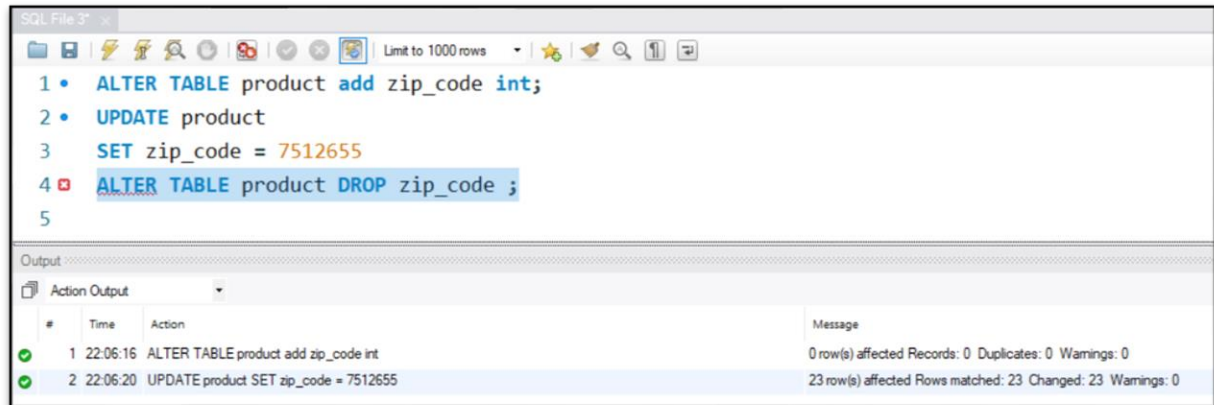
Output

#	Time	Action	Message
1	22:06:16	ALTER TABLE product add zip_code int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	22:06:20	UPDATE product SET zip_code = 7512655	23 row(s) affected Rows matched: 23 Changed: 23 Warnings: 0

Question 15:

drop the column zip_code from the table

ANSWERS



The screenshot shows an SQL IDE window titled "SQL File 3". The script contains the following SQL statements:

```
1 • ALTER TABLE product add zip_code int;
2 • UPDATE product
3   SET zip_code = 7512655
4 • ALTER TABLE product DROP zip_code ;
5
```

The "Output" pane at the bottom shows the execution results:

#	Time	Action	Message
1	22:06:16	ALTER TABLE product add zip_code int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	22:06:20	UPDATE product SET zip_code = 7512655	23 row(s) affected Rows matched: 23 Changed: 23 Warnings: 0