```
Q1)
```

```
CREATE TABLE "PRODUCTS"

( "PRODUCTID" NUMBER,

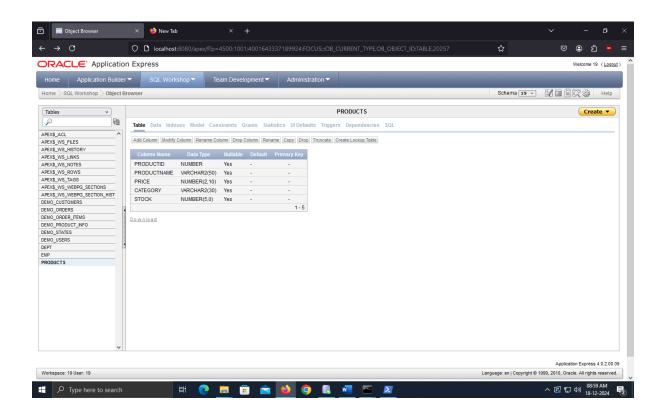
"PRODUCTNAME" VARCHAR2(50),

"PRICE" NUMBER(2,10),

"CATEGORY" VARCHAR2(30),

"STOCK" NUMBER(5,0)

);
```



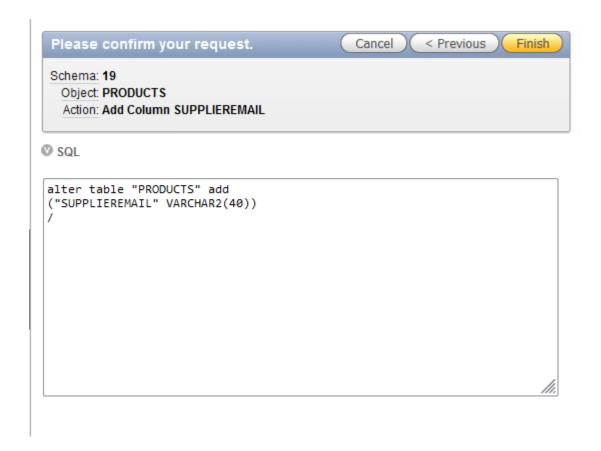
## Q2)

i) alter table "PRODUCTS" modify ("CATEGORY" VARCHAR2(50))



Application Express 4 0 2 00

ii) alter table "PRODUCTS" add("SUPPLIEREMAIL" VARCHAR2(40))



## iii) alter table "PRODUCTS" drop column "STOCK"

Column Name	Data Type	Nullable	Default	Primary Key
PRODUCTID	NUMBER	Yes	-	-
PRODUCTNAME	VARCHAR2(50)	Yes	-	-
PRICE	NUMBER(2,10)	Yes	-	-
CATEGORY	VARCHAR2(50)	Yes	-	-
SUPPLIEREMAIL	VARCHAR2(40)	Yes	-	-
				1-5

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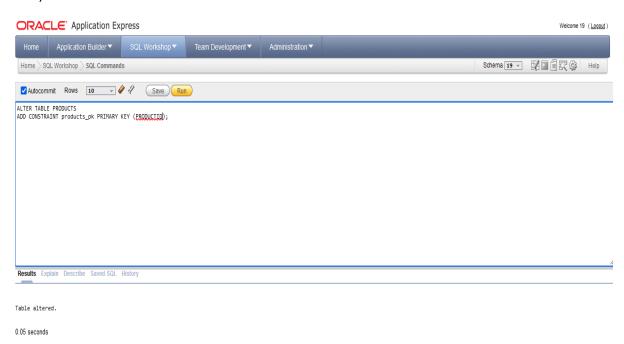
### iv) alter table "PRODUCTS" add ("ADDEDDATE" DATE)

Column Name	Data Type	Nullable	Default	Primary Key
PRODUCTID	NUMBER	Yes	-	-
PRODUCTNAME	VARCHAR2(50)	Yes	-	-
PRICE	NUMBER(2,10)	Yes	-	-
CATEGORY	VARCHAR2(50)	Yes	-	-
SUPPLIEREMAIL	VARCHAR2(40)	Yes	-	-
ADDEDDATE	DATE	Yes	-	-
				1-6

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Q3)

i)



### **ALTER TABLE PRODUCTS**

ADD CONSTRAINT products\_pk PRIMARY KEY (PRODUCTID);

# ii) alter table PRODUCTS add constraints email\_uniq UNIQUE(supplieremail);

Constraint		Search Condition	Related Constraint	Columns			Last Change		
PRODUCTS_PK	Primary	-	-	PRODUCTID	-	ENABLED	12/18/2024 09:20:07 AM	PRODUCTS_PK	-
EMAIL_UNIQ	Unique	-	-	SUPPLIEREMAIL	-	ENABLED	12/18/2024 09:24:34 AM	EMAIL_UNIQ	-
								1-2	

## 4)

INSERT INTO PRODUCTS VALUES (2,'asdf', 66.21, 'tech', 'gugu@gaga.com', TO\_DATE('2024-12-18', 'YYYY-MM-DD'));

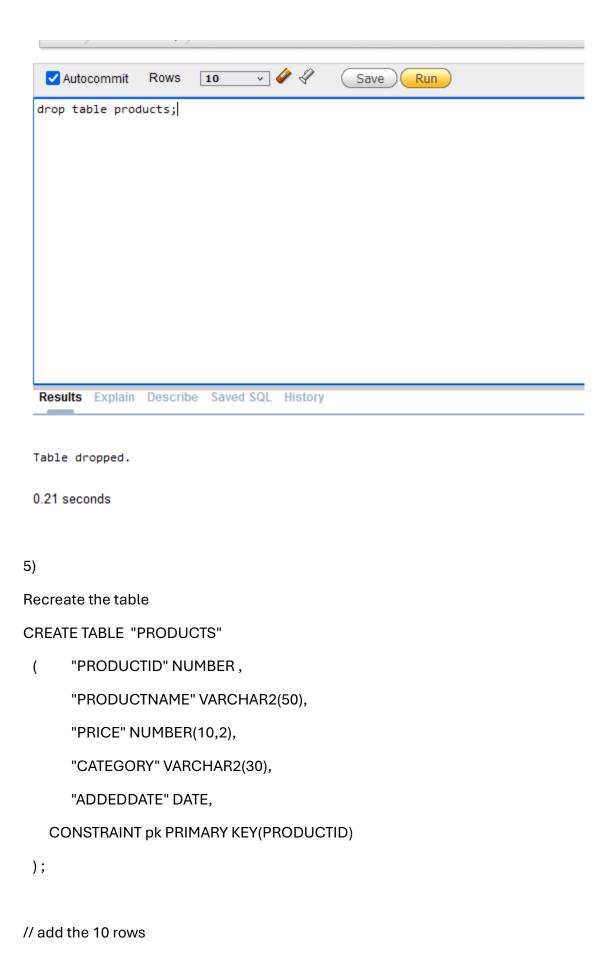
PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	SUPPLIEREMAIL	ADDEDDATE
1	laptop	66.21	tech	gugu@gaga.com	12/18/2024
2	asdf	66.21	tech	gugu@gaa.com	12/18/2024
3	asdf	66.21	tech	gu@gaa.com	12/18/2024
4	asdf	66.21	tech	guu@gaa.com	12/18/2024
5	asdf	66.21	tech	ggu@gaa.com	12/18/2024
6	asdf	66.21	tech	gud@gaa.com	12/18/2024

Download

6 rows returned in 0.01 seconds

Table truncated.

0.36 seconds



INSERT INTO PRODUCTS VALUES (1, 'laptop', 499.99, 'tech', TO\_DATE('2024-01-15', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (2, 'smartphone', 299.49, 'tech', TO\_DATE('2024-02-20', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (3, 'tablet', 150.89, 'tech', TO\_DATE('2024-03-10', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (4, 'headphones', 79.99, 'audio', TO\_DATE('2024-04-05', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (5, 'keyboard', 49.99, 'accessory', TO\_DATE('2024-05-25', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (6, 'monitor', 189.75, 'tech', TO\_DATE('2024-06-12', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (7, 'mouse', 29.99, 'accessory', TO\_DATE('2024-07-30', 'YYYY-MM-DD'));

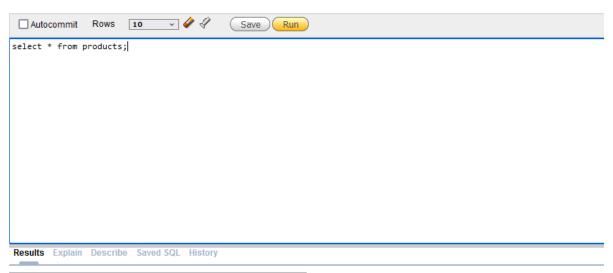
INSERT INTO PRODUCTS VALUES (8, 'printer', 120.59, 'office', TO\_DATE('2024-08-15', 'YYYY-MM-DD'));

INSERT INTO PRODUCTS VALUES (9, 'webcam', 45.79, 'tech', TO\_DATE('2024-09-02', 'YYYY-MM-DD'));

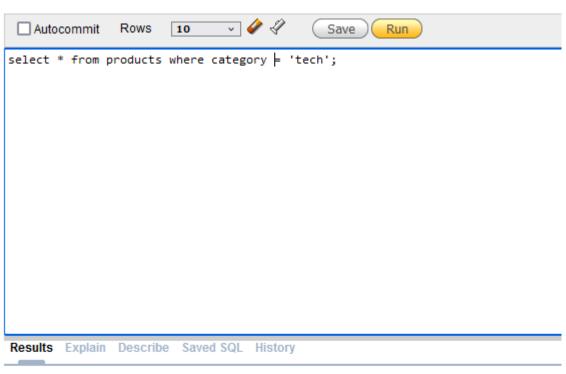
INSERT INTO PRODUCTS VALUES (10, 'speaker', 99.99, 'audio', TO\_DATE('2024-10-18', 'YYYY-MM-DD'));

PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	299.49	tech	02/20/2024
3	tablet	150.89	tech	03/10/2024
4	headphones	79.99	audio	04/05/2024
5	keyboard	49.99	accessory	05/25/2024
6	monitor	189.75	tech	06/12/2024
7	mouse	29.99	accessory	07/30/2024
8	printer	120.59	office	08/15/2024
9	webcam	45.79	tech	09/02/2024
10	speaker	99.99	audio	10/18/2024
1	laptop	499.99	tech	01/15/2024

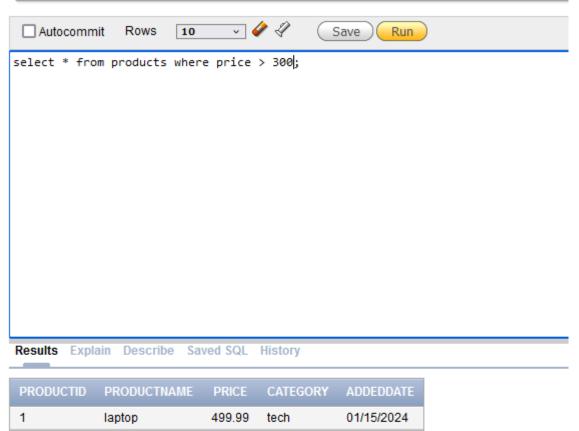
<sup>10</sup> rows returned in 0.00 seconds



PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	299.49	tech	02/20/2024
3	tablet	150.89	tech	03/10/2024
4	headphones	79.99	audio	04/05/2024
5	keyboard	49.99	accessory	05/25/2024
6	monitor	189.75	tech	06/12/2024
7	mouse	29.99	accessory	07/30/2024
8	printer	120.59	office	08/15/2024
9	webcam	45.79	tech	09/02/2024
10	speaker	99.99	audio	10/18/2024
1	laptop	499.99	tech	01/15/2024



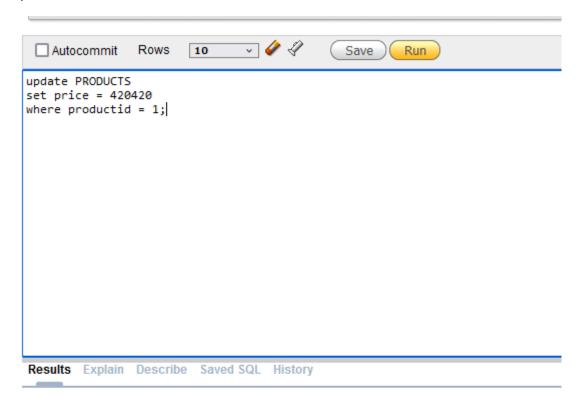
PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	299.49	tech	02/20/2024
3	tablet	150.89	tech	03/10/2024
6	monitor	189.75	tech	06/12/2024
9	webcam	45.79	tech	09/02/2024
1	laptop	499.99	tech	01/15/2024



```
update PRODUCTS
set category = 'expensive'
where price > 150 ;

Results Explain Describe Saved SQL History
```

4 row(s) updated.



1 row(s) updated.

0.02 seconds

PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	299.49	tech	02/20/2024
3	tablet	150.89	tech	03/10/2024
4	headphones	79.99	audio	04/05/2024
5	keyboard	49.99	accessory	05/25/2024
6	monitor	189.75	tech	06/12/2024
7	mouse	29.99	accessory	07/30/2024
8	printer	120.59	office	08/15/2024
9	webcam	45.79	tech	09/02/2024
10	speaker	99.99	audio	10/18/2024
1	laptop	420420	tech	01/15/2024

```
UPDATE PRODUCTS
SET price = price * 1.10;

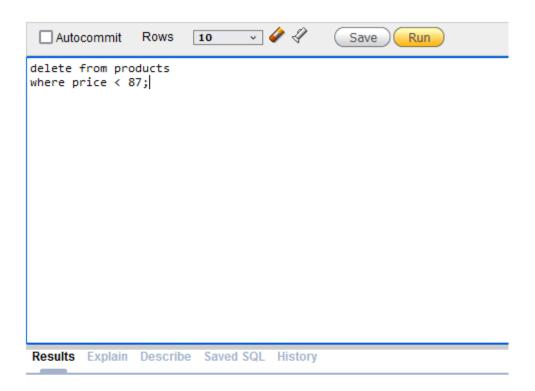
Results Explain Describe Saved SQL History
```

10 row(s) updated.

### 0.00 seconds

PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	329.44	expensive	02/20/2024
3	tablet	165.98	expensive	03/10/2024
4	headphones	87.99	audio	04/05/2024
5	keyboard	54.99	accessory	05/25/2024
6	monitor	208.73	expensive	06/12/2024
7	mouse	32.99	accessory	07/30/2024
8	printer	132.65	office	08/15/2024
9	webcam	50.37	tech	09/02/2024
10	speaker	109.99	audio	10/18/2024
1	laptop	462462	expensive	01/15/2024

<sup>10</sup> rows returned in 0.00 seconds



3 row(s) deleted.

0.00 seconds

PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
2	smartphone	329.44	expensive	02/20/2024
3	tablet	165.98	expensive	03/10/2024
4	headphones	87.99	audio	04/05/2024
6	monitor	208.73	expensive	06/12/2024
8	printer	132.65	office	08/15/2024
10	speaker	109.99	audio	10/18/2024
1	laptop	462462	expensive	01/15/2024

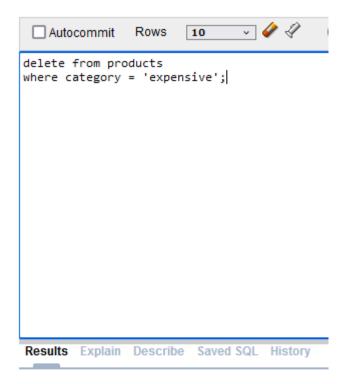
8)



1 row(s) deleted.

0.00 seconds

9)



4 row(s) deleted.

#### 0.00 seconds

PRODUCTID	PRODUCTNAME	PRICE	CATEGORY	ADDEDDATE
8	printer	132.65	office	08/15/2024
10	speaker	109.99	audio	10/18/2024