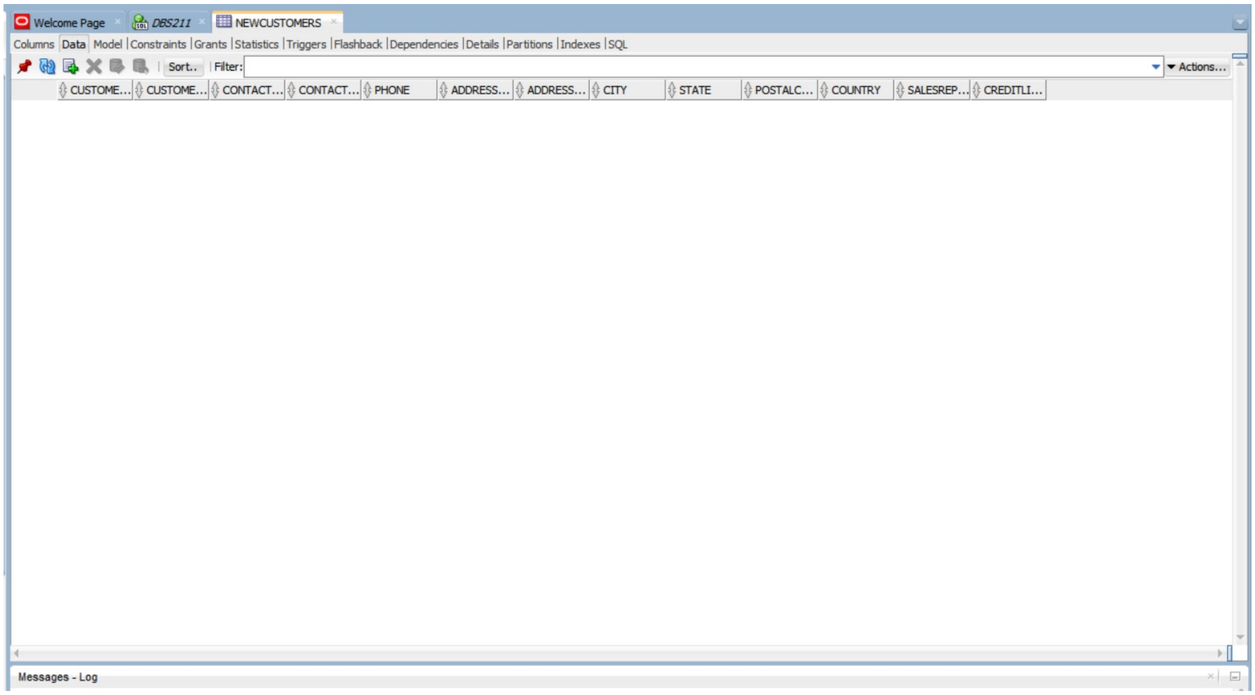
Q1

```
CREATE TABLE newCustomerS AS

SELECT *

FROM RETAILCUSTOMERS

WHERE 1 = 2;
```



CUSTOME...	CUSTOME...	CONTACT...	CONTACT...	PHONE	ADDRESS...	ADDRESS...	CITY	STATE	POSTALC...	COUNTRY	SALESREP...	CREDITLI...

Q2

```
INSERT ALL

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (100, 'Patel', 'Ralph', '2233355555', '10 Seneca Way', 'Paris', 'France', 'Ralph Patel')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (101, 'Denis', 'Betty', '3344455555', '110 Seneca Way', 'Chicago', 'USA', 'Betty Denis')
```

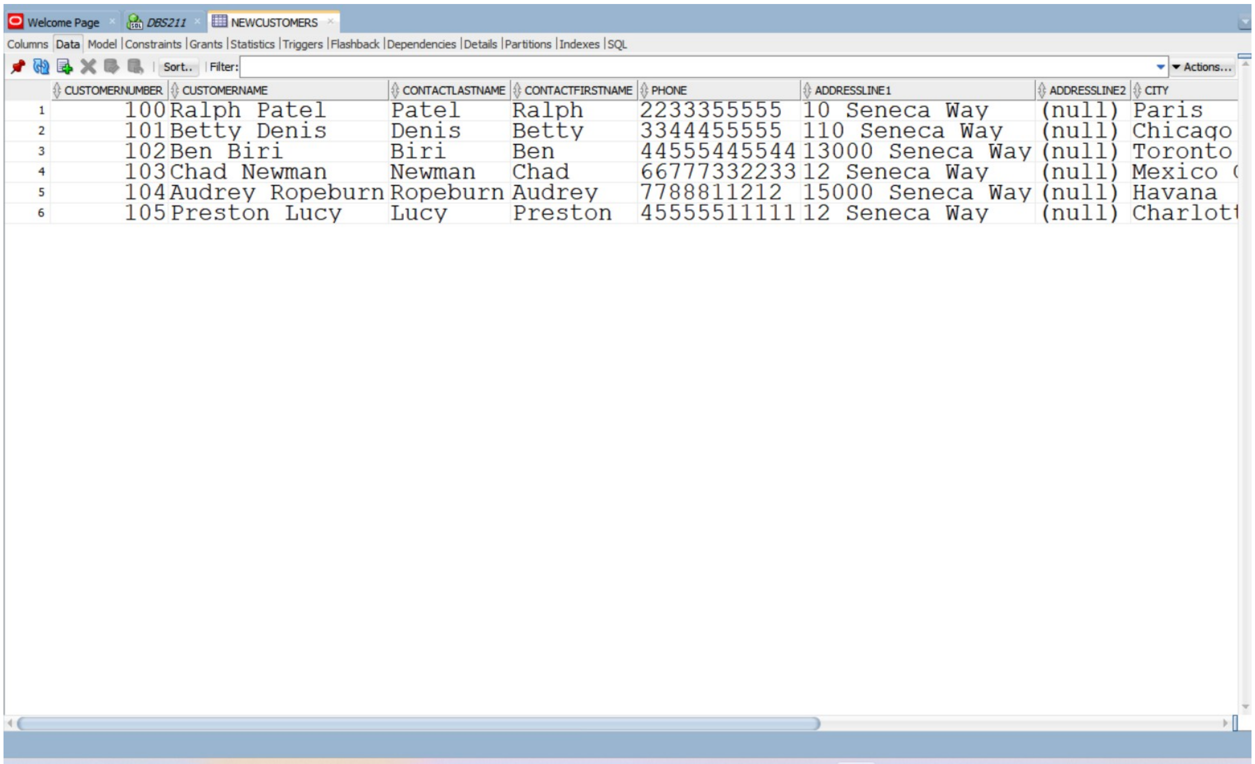
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (102, 'Biri', 'Ben', '44555445544', '13000 Seneca Way', 'Toronto', 'Canada', 'Ben Biri')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (103, 'Newman', 'Chad', '66777332233', '12 Seneca Way', 'Mexico City', 'Mexico', 'Chad Newman')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (104, 'Ropeburn', 'Audrey', '7788811212', '15000 Seneca Way', 'Havana', 'Cuba', 'Audrey Ropeburn')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (105, 'Lucy', 'Preston', '45555511111', '12 Seneca Way', 'Charlotte', 'USA', 'Preston Lucy')

SELECT * FROM DUAL;

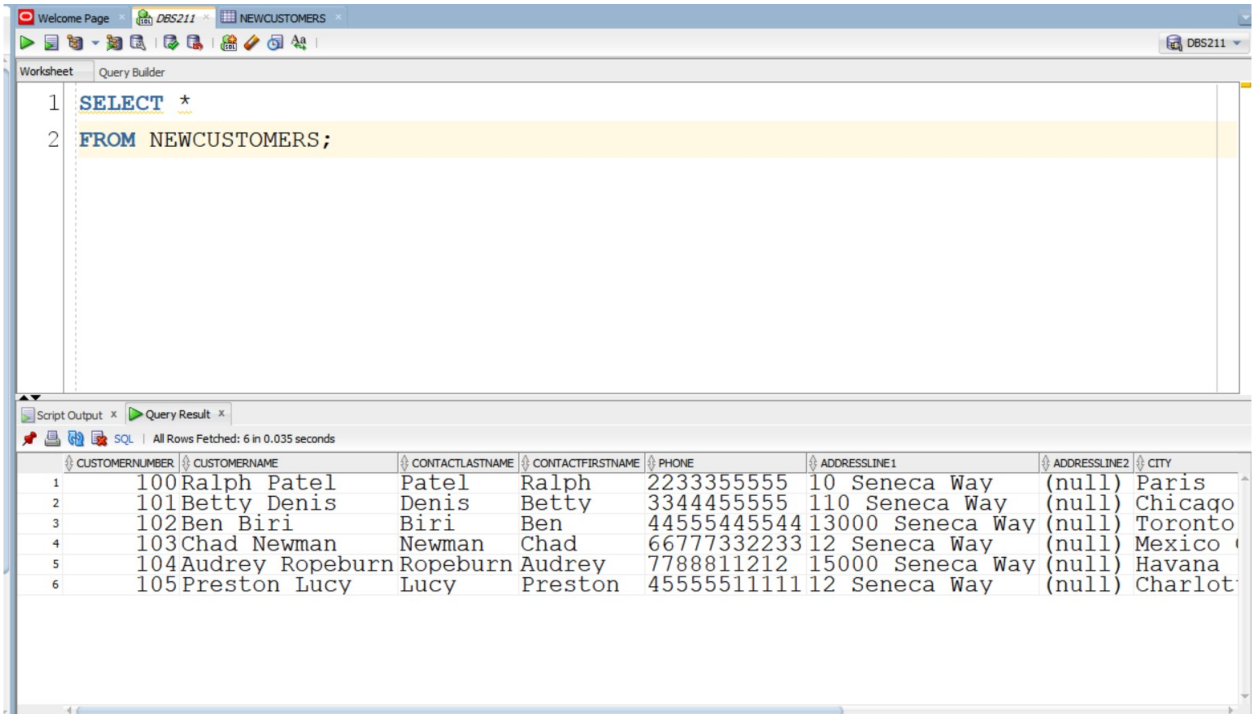


	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY
1	100	Ralph Patel	Patel	Ralph	2233355555	10 Seneca Way	(null)	Paris
2	101	Betty Denis	Denis	Betty	3344455555	110 Seneca Way	(null)	Chicago
3	102	Ben Biri	Biri	Ben	44555445544	13000 Seneca Way	(null)	Toronto
4	103	Chad Newman	Newman	Chad	66777332233	12 Seneca Way	(null)	Mexico (
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	15000 Seneca Way	(null)	Havana
6	105	Preston Lucy	Lucy	Preston	45555511111	12 Seneca Way	(null)	Charlott

Q3

SELECT *

FROM NEWCUSTOMERS;



```
SELECT *
FROM NEWCUSTOMERS;
```

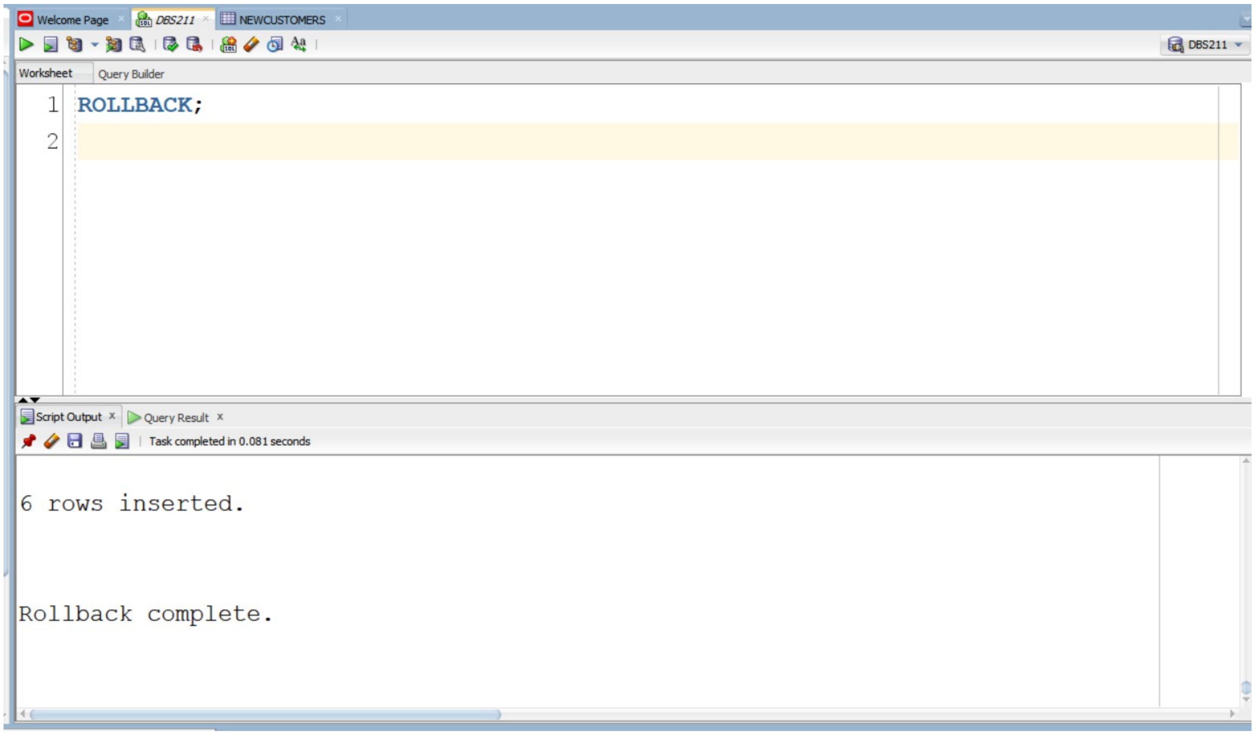
All Rows Fetched: 6 in 0.035 seconds

	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY
1	100	Ralph Patel	Patel	Ralph	2233355555	10 Seneca Way	(null)	Paris
2	101	Betty Denis	Denis	Betty	3344455555	110 Seneca Way	(null)	Chicago
3	102	Ben Biri	Biri	Ben	44555445544	13000 Seneca Way	(null)	Toronto
4	103	Chad Newman	Newman	Chad	66777332233	12 Seneca Way	(null)	Mexico
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	15000 Seneca Way	(null)	Havana
6	105	Preston Lucy	Lucy	Preston	45555511111	12 Seneca Way	(null)	Charlot

TOTAL 6 ROWS

Q4

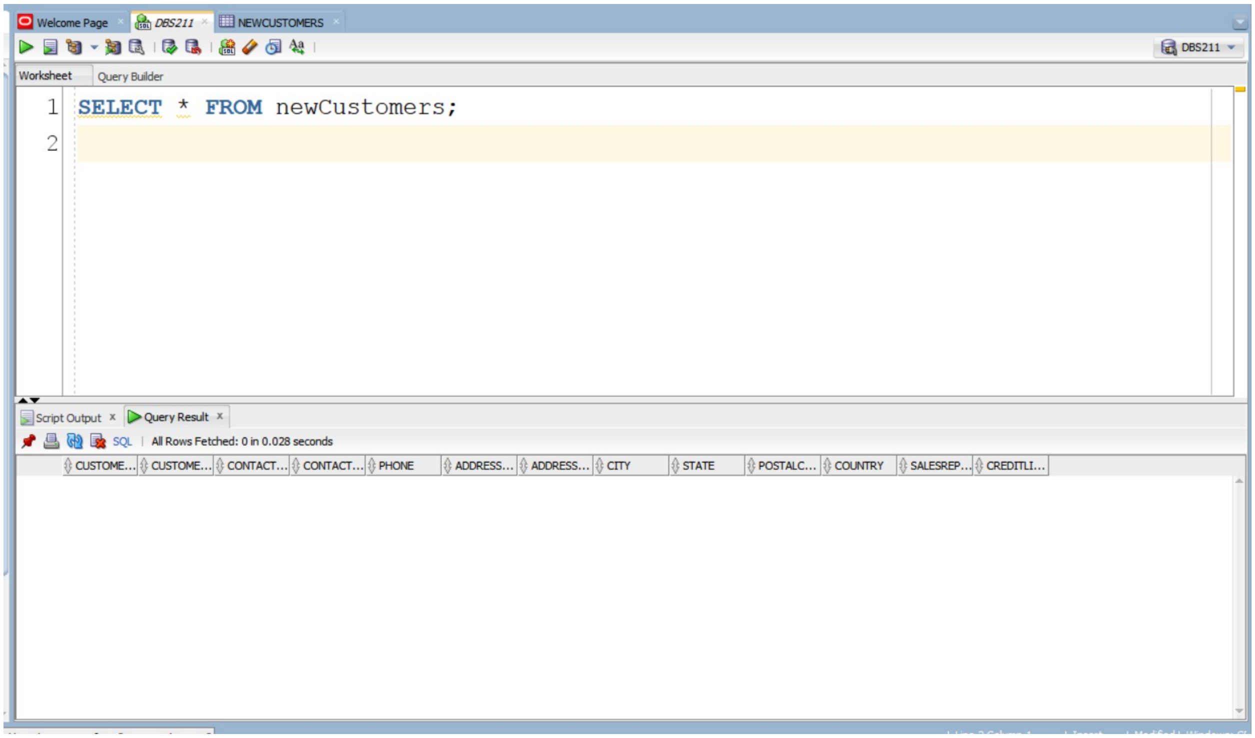
ROLLBACK;



```sql
ROLLBACK;
```

```
6 rows inserted.


Rollback complete.
```

SELECT * FROM newCustomers;

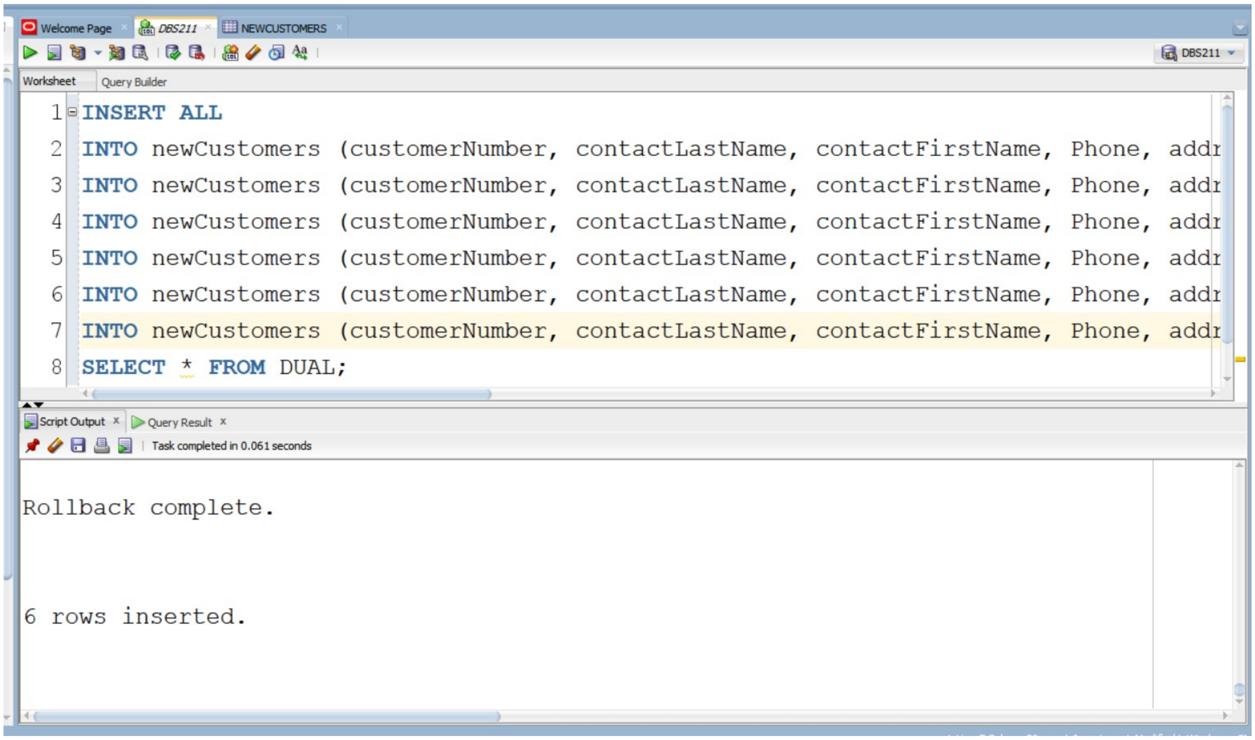


```sql
SELECT * FROM newCustomers;
```

CUSTOME...	CUSTOME...	CONTACT...	CONTACT...	PHONE	ADDRESS...	ADDRESS...	CITY	STATE	POSTALC...	COUNTRY	SALESREP...	CREDITLI...

Q5

```
INSERT ALL

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (100, 'Patel', 'Ralph', '2233355555', '10 Seneca Way', 'Paris', 'France',
'Ralph Patel')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (101, 'Denis', 'Betty', '3344455555', '110 Seneca Way', 'Chicago', 'USA',
'Betty Denis')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (102, 'Biri', 'Ben', '44555445544', '13000 Seneca Way', 'Toronto',
'Canada', 'Ben Biri')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (103, 'Newman', 'Chad', '66777332233', '12 Seneca Way', 'Mexico City',
'Mexico', 'Chad Newman')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (104, 'Ropeburn', 'Audrey', '7788811212', '15000 Seneca Way',
'Havana', 'Cuba', 'Audrey Ropeburn')

INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city,
country, customerName) VALUES (105, 'Lucy', 'Preston', '45555511111', '12 Seneca Way', 'Charlotte',
'USA', 'Preston Lucy')

SELECT * FROM DUAL;
```

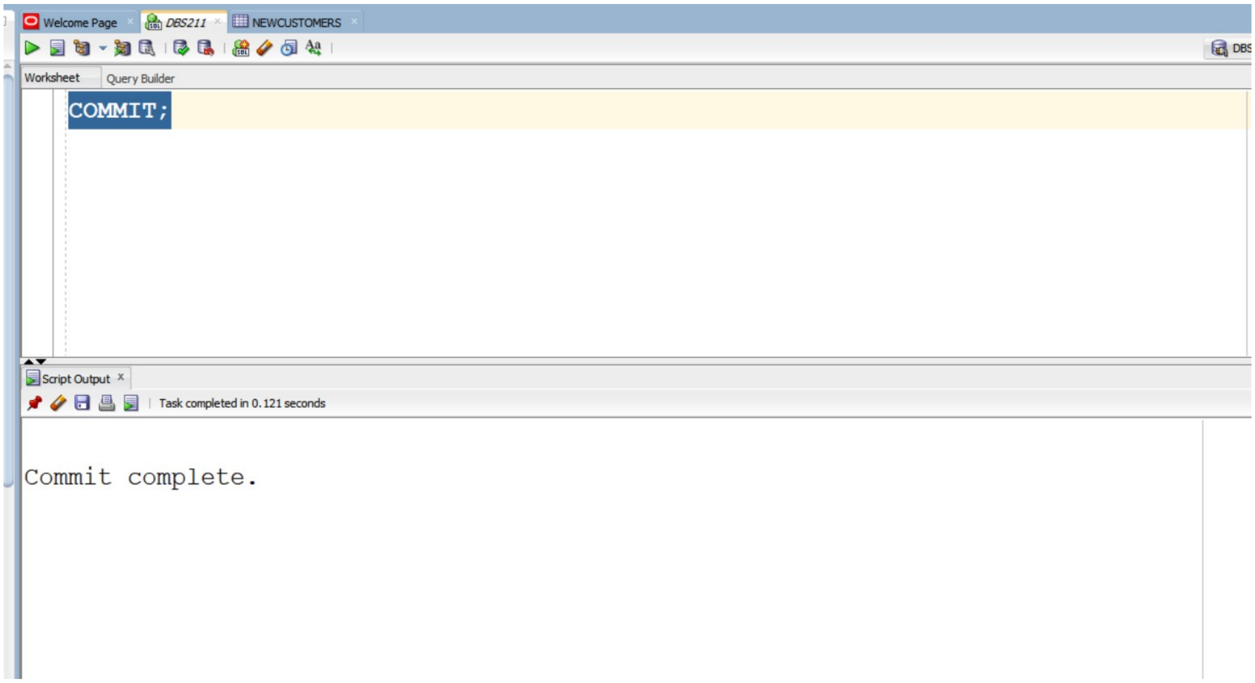


```
INSERT ALL
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addr
SELECT * FROM DUAL;
```

Task completed in 0.061 seconds

```
Rollback complete.


6 rows inserted.
```

COMMIT;

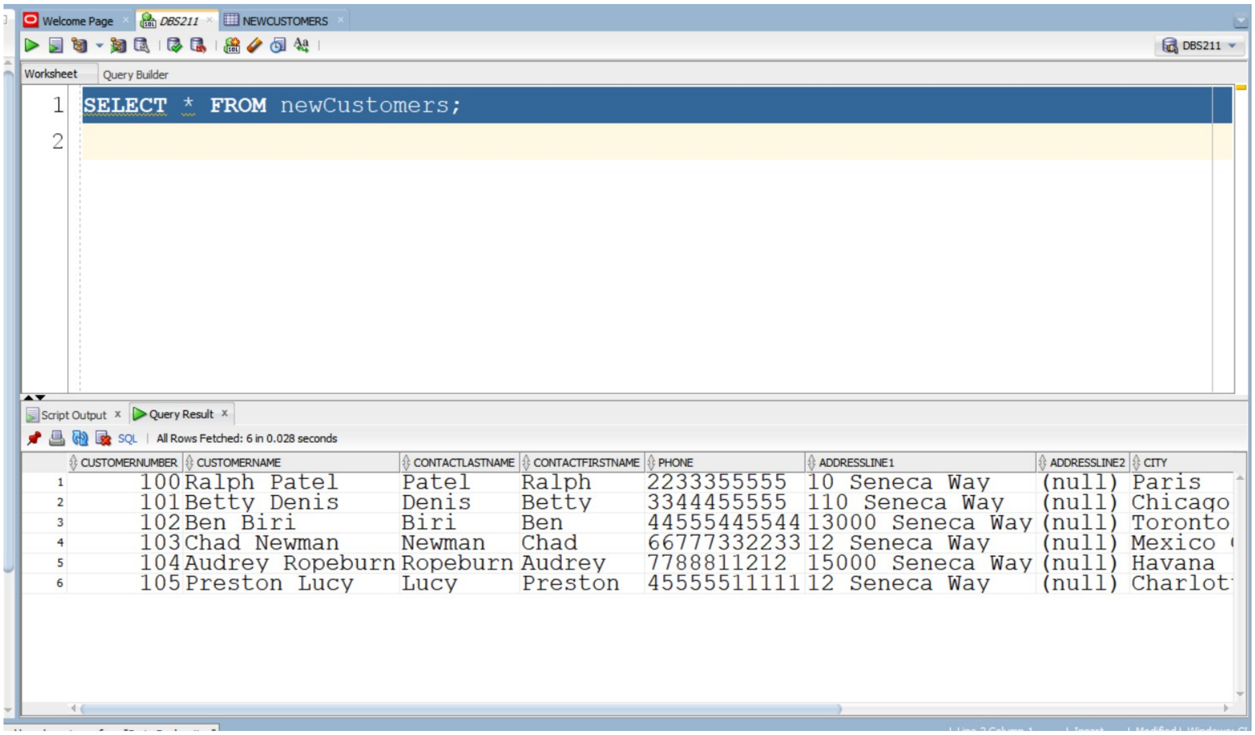


```
COMMIT;
```

Task completed in 0.121 seconds

```
Commit complete.
```

SELECT * FROM newCustomers;



```sql
SELECT * FROM newCustomers;
```

All Rows Fetched: 6 in 0.028 seconds

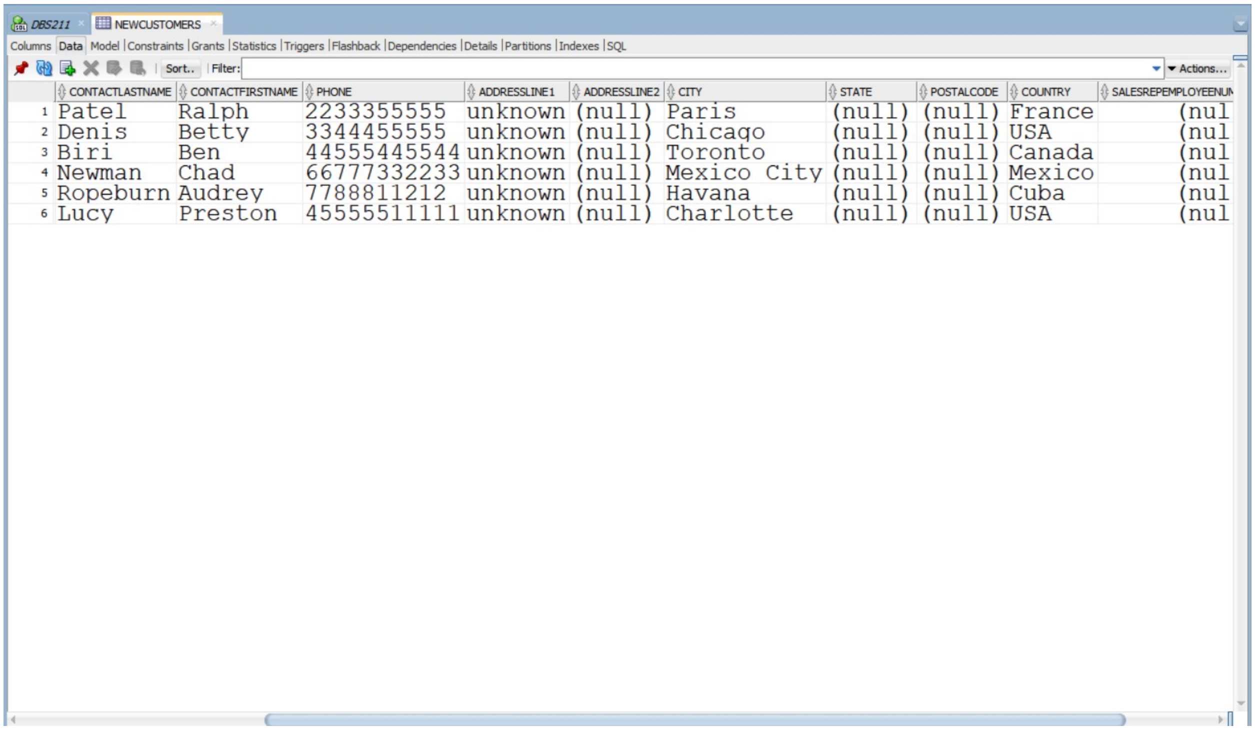
	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY
1	100	Ralph Patel	Patel	Ralph	2233355555	10 Seneca Way	(null)	Paris
2	101	Betty Denis	Denis	Betty	3344455555	110 Seneca Way	(null)	Chicago
3	102	Ben Biri	Biri	Ben	44555445544	13000 Seneca Way	(null)	Toronto
4	103	Chad Newman	Newman	Chad	66777332233	12 Seneca Way	(null)	Mexico (
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	15000 Seneca Way	(null)	Havana
6	105	Preston Lucy	Lucy	Preston	45555511111	12 Seneca Way	(null)	Charlot

6 ROWS

Q6

UPDATE newCustomers

SET addressLine1 = 'unknown';

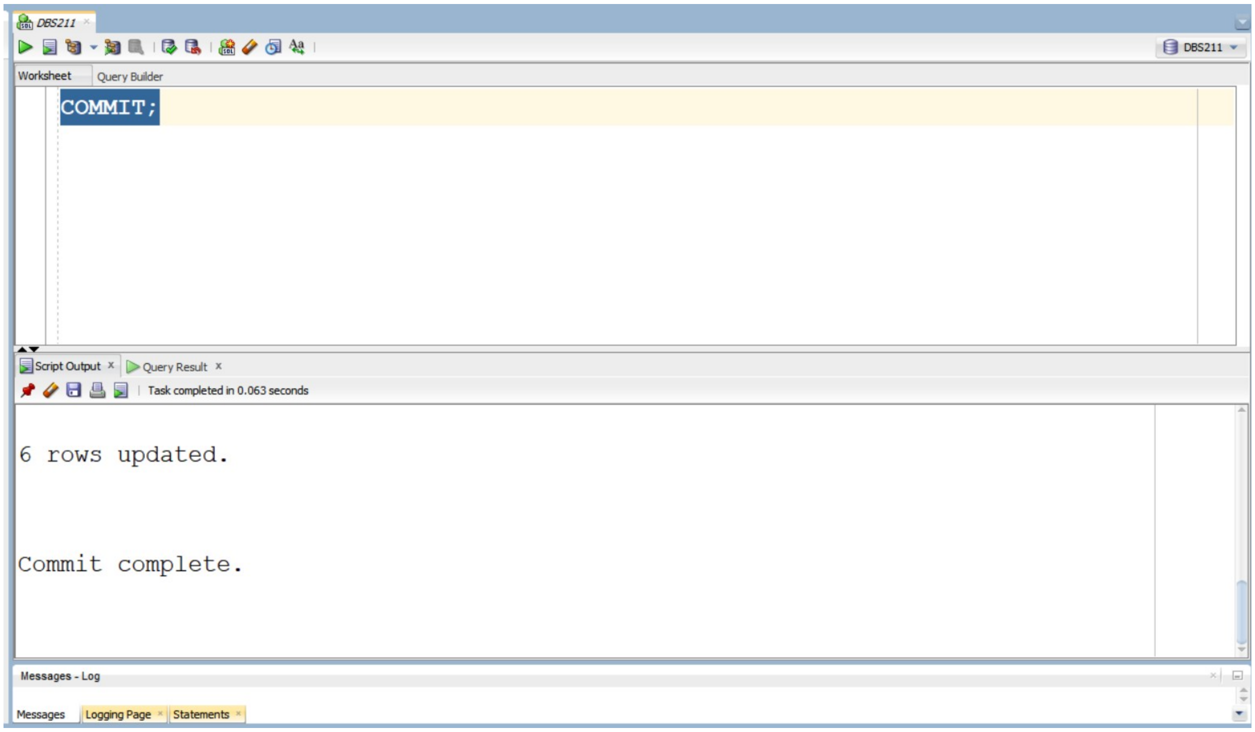


DBS211
NEWCUSTOMERS
Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL
Sort..
Filter:
Actions...

	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	POSTALCODE	COUNTRY	SALESREPEMPLOYEENUM
1	Patel	Ralph	2233355555	unknown	(null)	Paris	(null)	(null)	France	(nul
2	Denis	Betty	3344455555	unknown	(null)	Chicago	(null)	(null)	USA	(nul
3	Biri	Ben	44555445544	unknown	(null)	Toronto	(null)	(null)	Canada	(nul
4	Newman	Chad	66777332233	unknown	(null)	Mexico City	(null)	(null)	Mexico	(nul
5	Ropeburn	Audrey	7788811212	unknown	(null)	Havana	(null)	(null)	Cuba	(nul
6	Lucy	Preston	45555511111	unknown	(null)	Charlotte	(null)	(null)	USA	(nul

Q7

COMMIT;

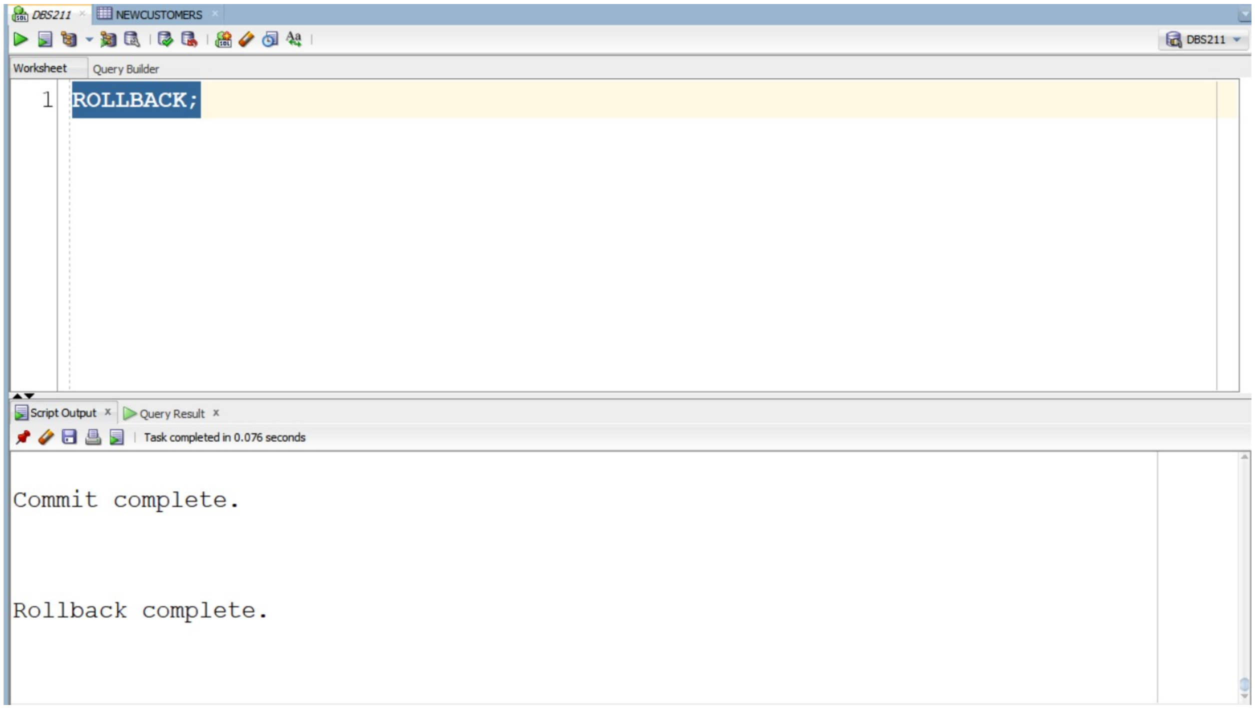


```
COMMIT;
```

```
6 rows updated.


Commit complete.
```

Q8

ROLLBACK;



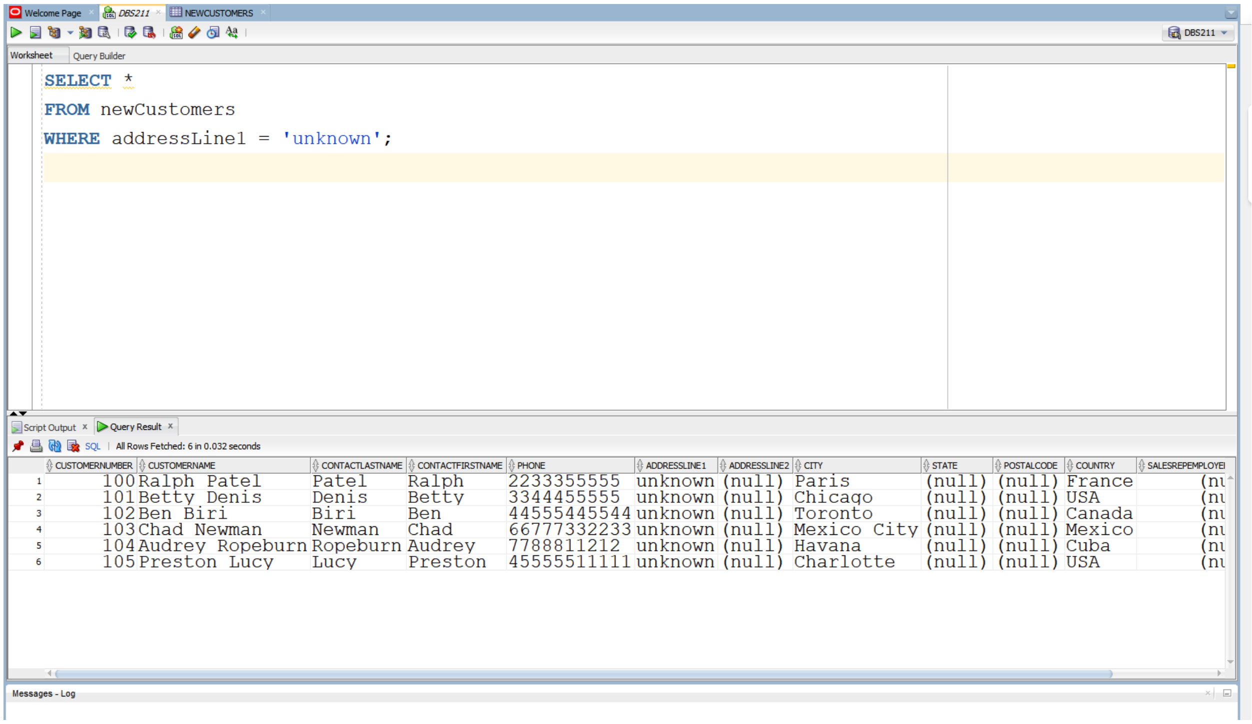
```sql
ROLLBACK;
```

```
Commit complete.


Rollback complete.
```

SELECT *

FROM newCustomers

WHERE addressLine1 = 'unknown';



```sql
SELECT *
FROM newCustomers
WHERE addressLine1 = 'unknown';
```

	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	POSTALCODE	COUNTRY	SALESREPEMPLOYEI
1	100	Ralph Patel	Patel	Ralph	2233355555	unknown	(null)	Paris	(null)	(null)	France	(nu
2	101	Betty Denis	Denis	Betty	3344455555	unknown	(null)	Chicago	(null)	(null)	USA	(nu
3	102	Ben Biri	Biri	Ben	44555445544	unknown	(null)	Toronto	(null)	(null)	Canada	(nu
4	103	Chad Newman	Newman	Chad	66777332233	unknown	(null)	Mexico City	(null)	(null)	Mexico	(nu
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	unknown	(null)	Havana	(null)	(null)	Cuba	(nu
6	105	Preston Lucy	Lucy	Preston	45555511111	unknown	(null)	Charlotte	(null)	(null)	USA	(nu

a. Yes, stil updated

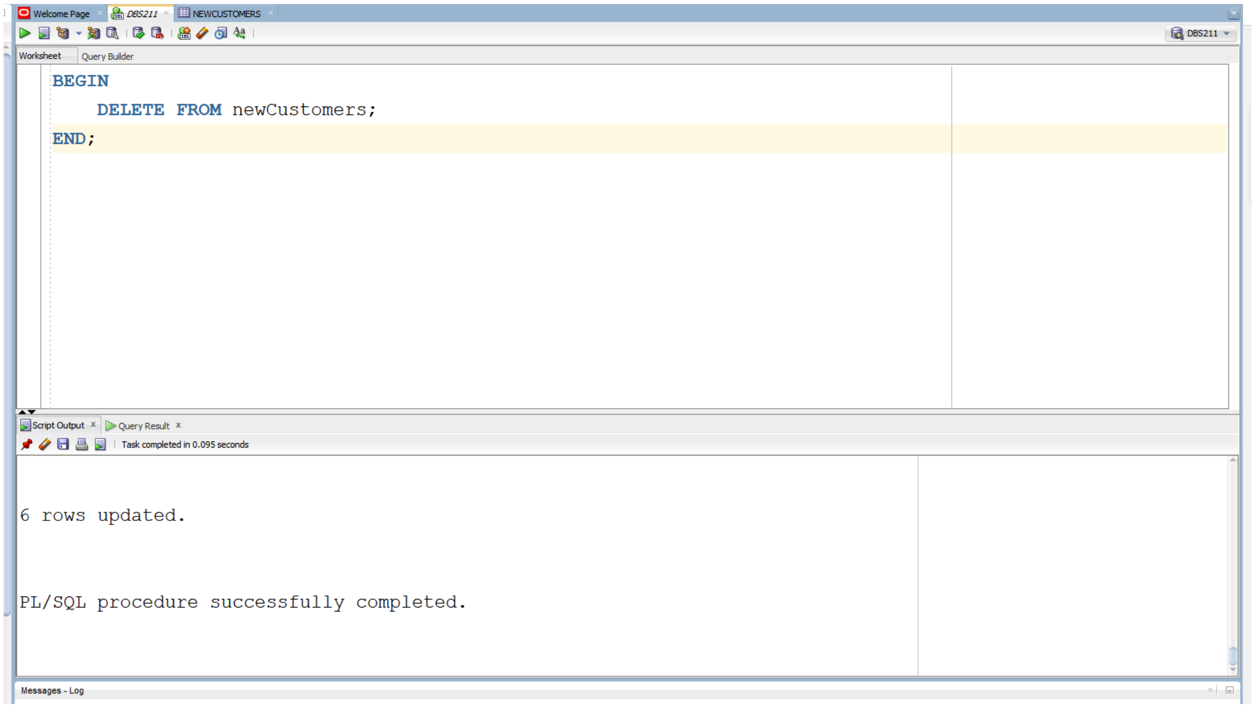
b. It can be effective starting from committing

c. In the case of question 6, when you roll back, you return to the starting point of the last commit, so no tables are visible. On the other hand, this question is useless because the data is permane ntly saved because you have already committed by rolling back immediately after committing.

Q9

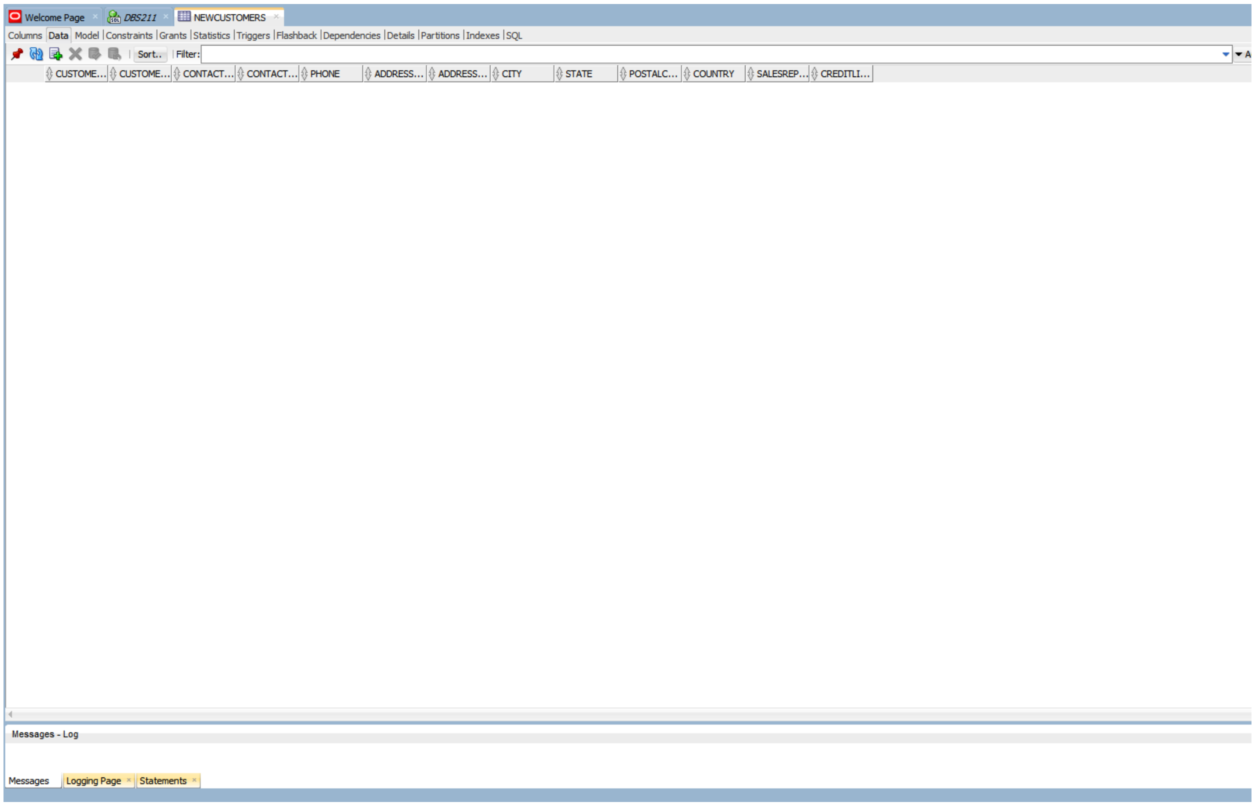
```
BEGIN
   DELETE FROM newCustomers;
```

END;



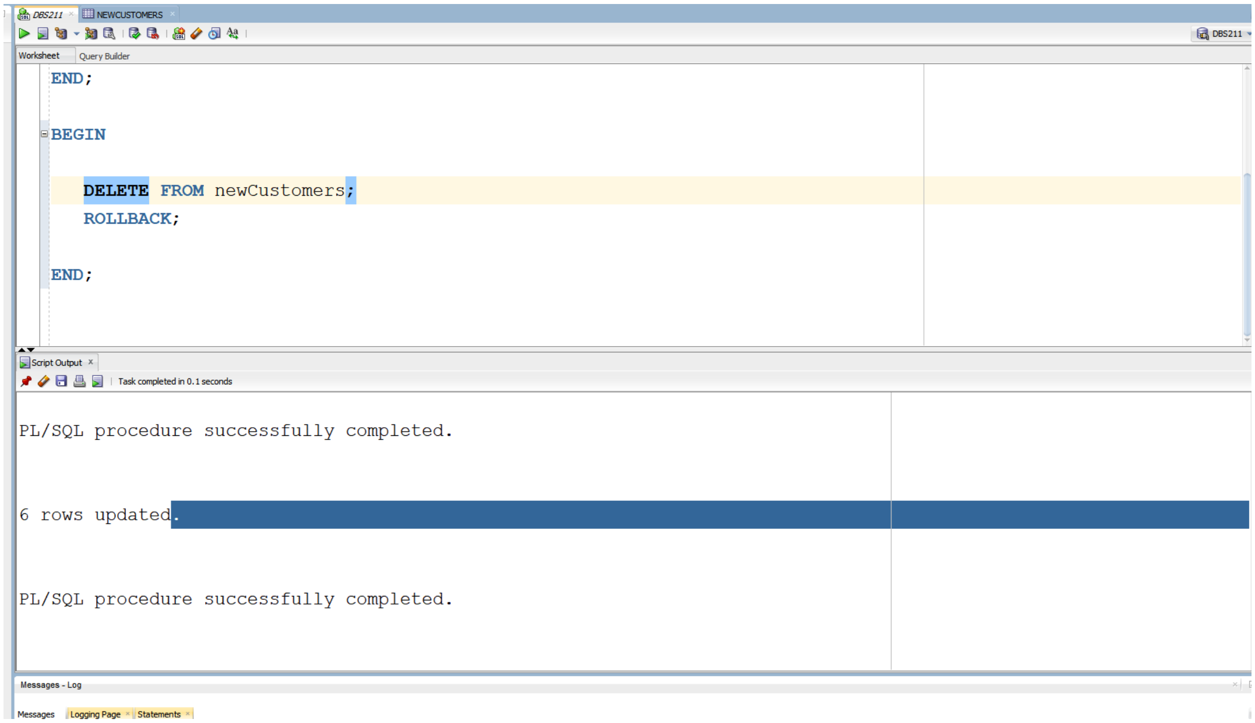
```
BEGIN
    DELETE FROM newCustomers;
END;
```

```
6 rows updated.


PL/SQL procedure successfully completed.
```



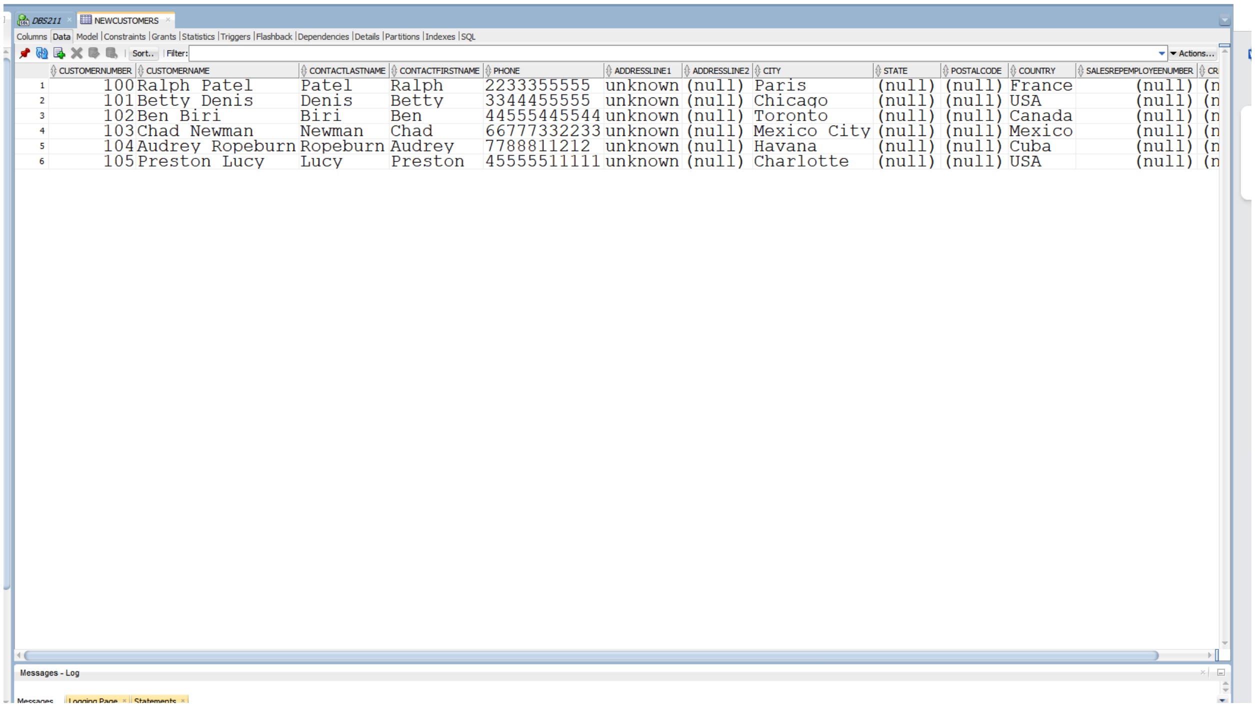
Q10

```
BEGIN


   DELETE FROM newCustomers;

   ROLLBACK;


END;
```



```
END;

BEGIN

    DELETE FROM newCustomers;
    ROLLBACK;

END;
```

```
PL/SQL procedure successfully completed.


6 rows updated.


PL/SQL procedure successfully completed.
```



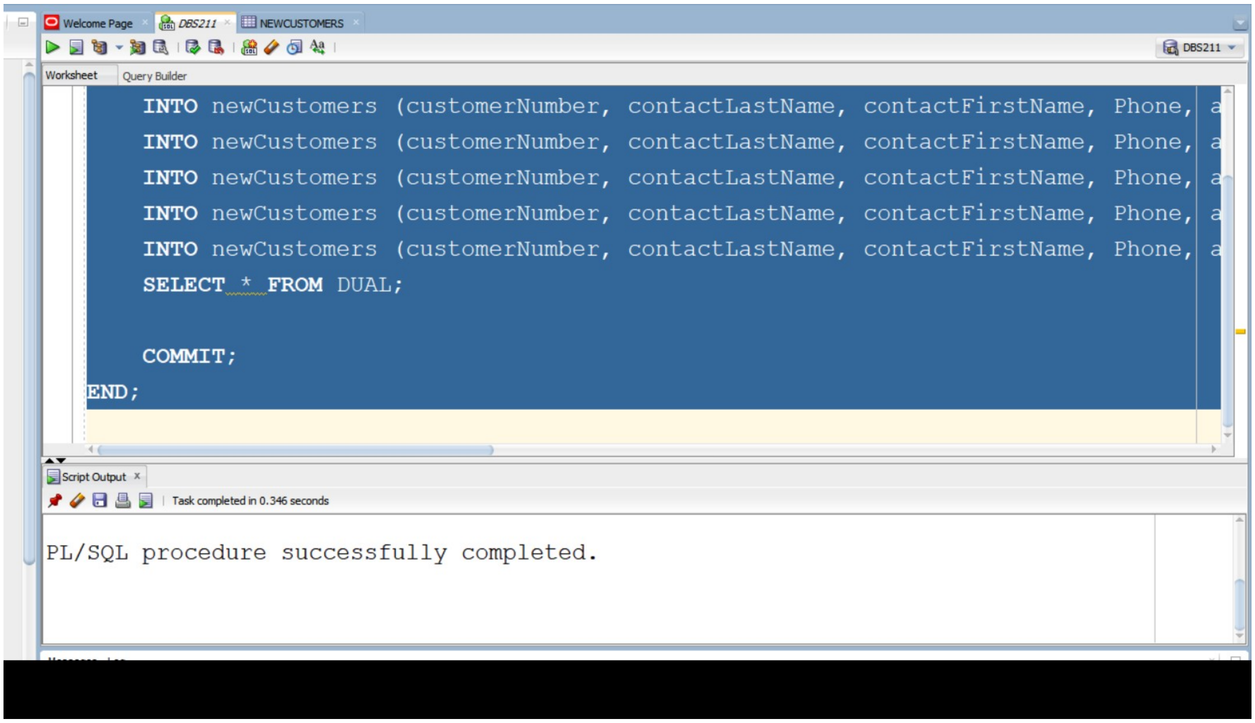
	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	POSTALCODE	COUNTRY	SALESREPEMPLOYEENUMBER	CR
1	100	Ralph Patel	Patel	Ralph	2233355555	unknown	(null)	Paris	(null)	(null)	France	(null)	(n
2	101	Betty Denis	Denis	Betty	3344455555	unknown	(null)	Chicago	(null)	(null)	USA	(null)	(n
3	102	Ben Biri	Biri	Ben	44555445544	unknown	(null)	Toronto	(null)	(null)	Canada	(null)	(n
4	103	Chad Newman	Newman	Chad	66777332233	unknown	(null)	Mexico City	(null)	(null)	Mexico	(null)	(n
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	unknown	(null)	Havana	(null)	(null)	Cuba	(null)	(n
6	105	Preston Lucy	Lucy	Preston	45555511111	unknown	(null)	Charlotte	(null)	(null)	USA	(null)	(n

Q11

```
BEGIN

   INSERT ALL

   INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (100, 'Patel', 'Ralph', '2233355555', '10 Seneca Way', 'Paris', 'France', 'Ralph Patel')

   INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (101, 'Denis', 'Betty', '3344455555', '110 Seneca Way', 'Chicago', 'USA', 'Betty Denis')

   INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (102, 'Biri', 'Ben', '44555445544', '13000 Seneca Way', 'Toronto', 'Canada', 'Ben Biri')

   INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1, city, country, customerName) VALUES (103, 'Newman', 'Chad', '66777332233', '12 Seneca Way', 'Mexico City', 'Mexico', 'Chad Newman')
```

```
    INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1,
city, country, customerName) VALUES (104, 'Ropeburn', 'Audrey', '7788811212', '15000 Seneca Way',
'Havana', 'Cuba', 'Audrey Ropeburn')

    INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, addressLine1,
city, country, customerName) VALUES (105, 'Lucy', 'Preston', '45555511111', '12 Seneca Way', 'Charlotte',
'USA', 'Preston Lucy')

    SELECT * FROM DUAL;


    COMMIT;
```

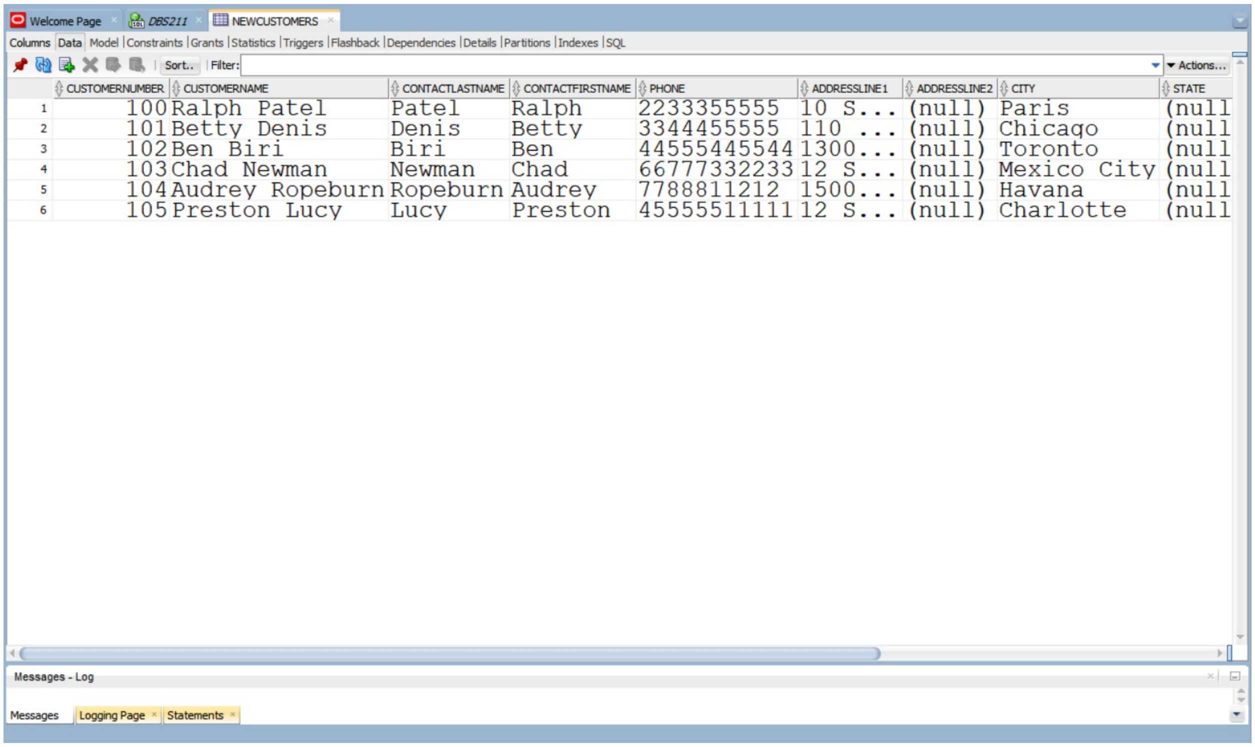
END;



```
        INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, a
        INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, a
        INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, a
        INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, a
        INTO newCustomers (customerNumber, contactLastName, contactFirstName, Phone, a
        SELECT * FROM DUAL;

        COMMIT;
END;
```

```
PL/SQL procedure successfully completed.
```

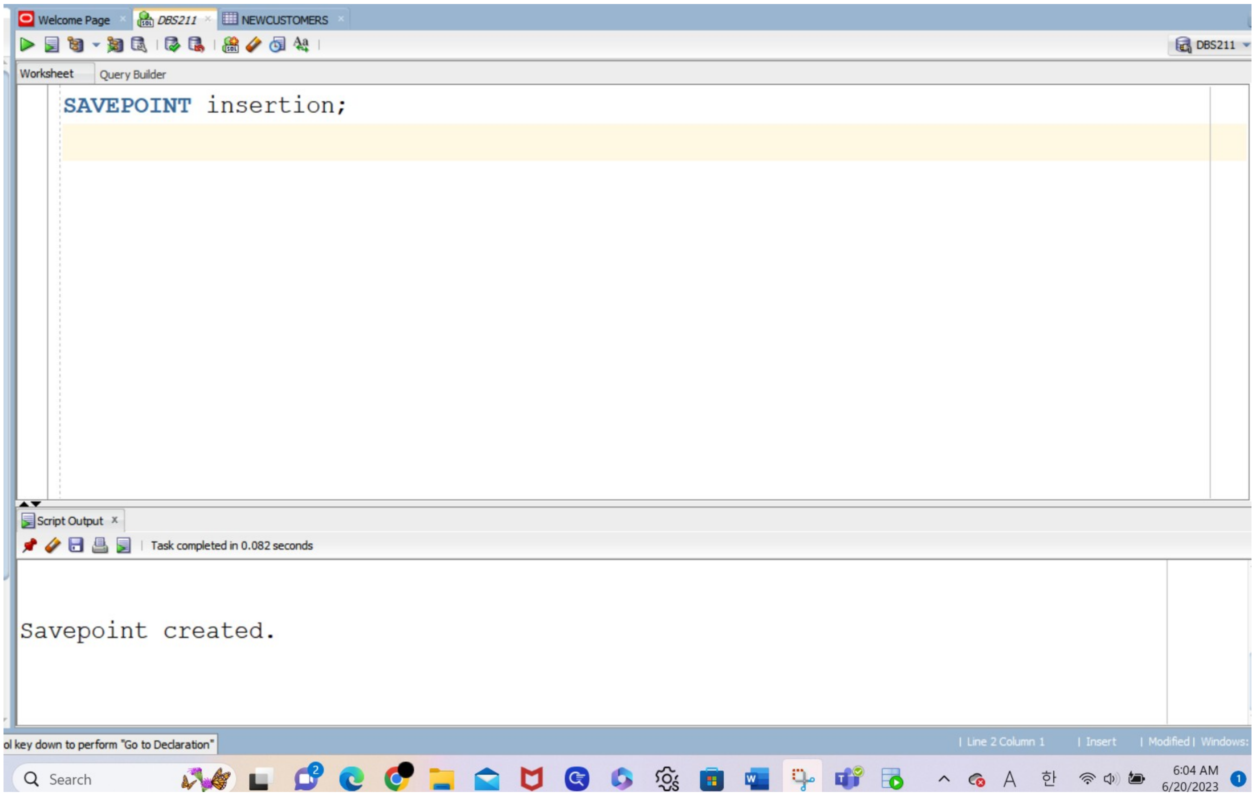
[redacted]



	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE
1	100	Ralph Patel	Patel	Ralph	2233355555	10 S...	(null)	Paris	(null
2	101	Betty Denis	Denis	Betty	3344455555	110 ...	(null)	Chicago	(null
3	102	Ben Biri	Biri	Ben	44555445544	1300...	(null)	Toronto	(null
4	103	Chad Newman	Newman	Chad	66777332233	12 S...	(null)	Mexico City	(null
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	1500...	(null)	Havana	(null
6	105	Preston Lucy	Lucy	Preston	45555511111	12 S...	(null)	Charlotte	(null

Q12

SAVEPOINT insertion;



```
SAVEPOINT insertion;
```

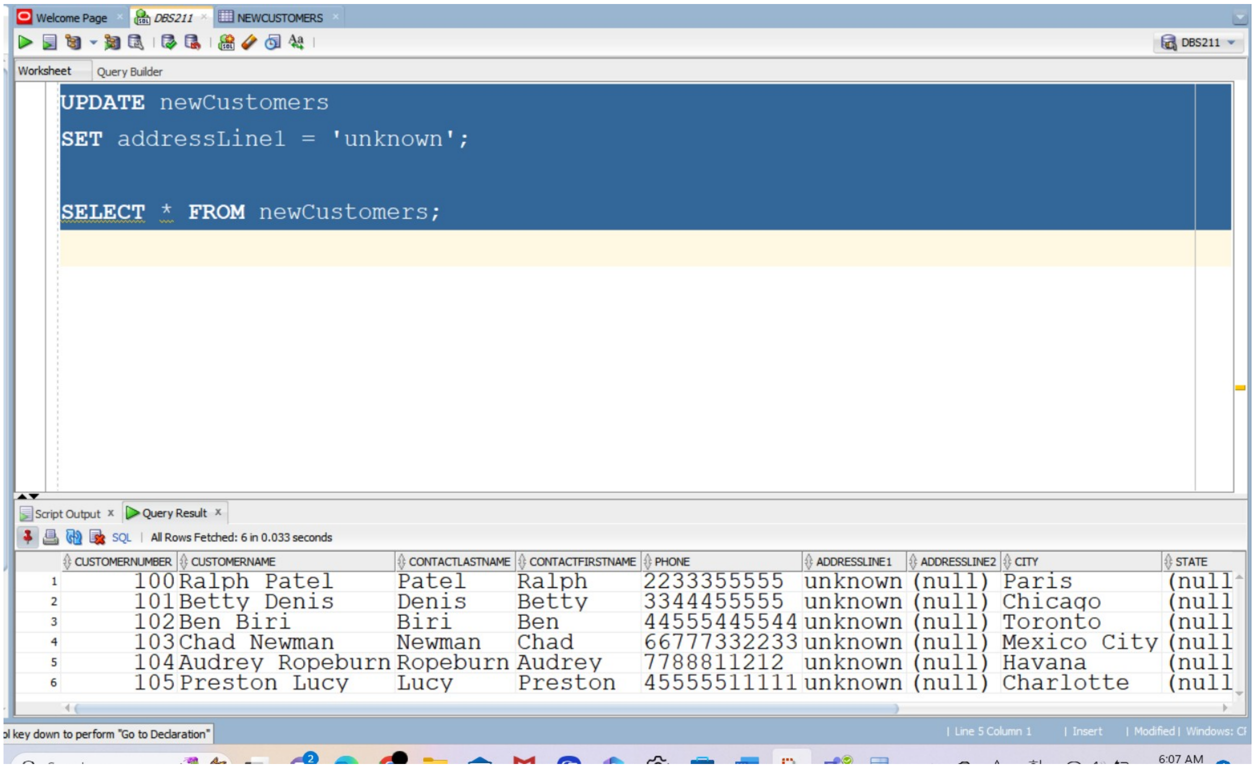
```
Savepoint created.
```

Q13

UPDATE newCustomers

SET addressLine1 = 'unknown';

SELECT * FROM newCustomers;



```sql
UPDATE newCustomers
SET addressLine1 = 'unknown';

SELECT * FROM newCustomers;
```

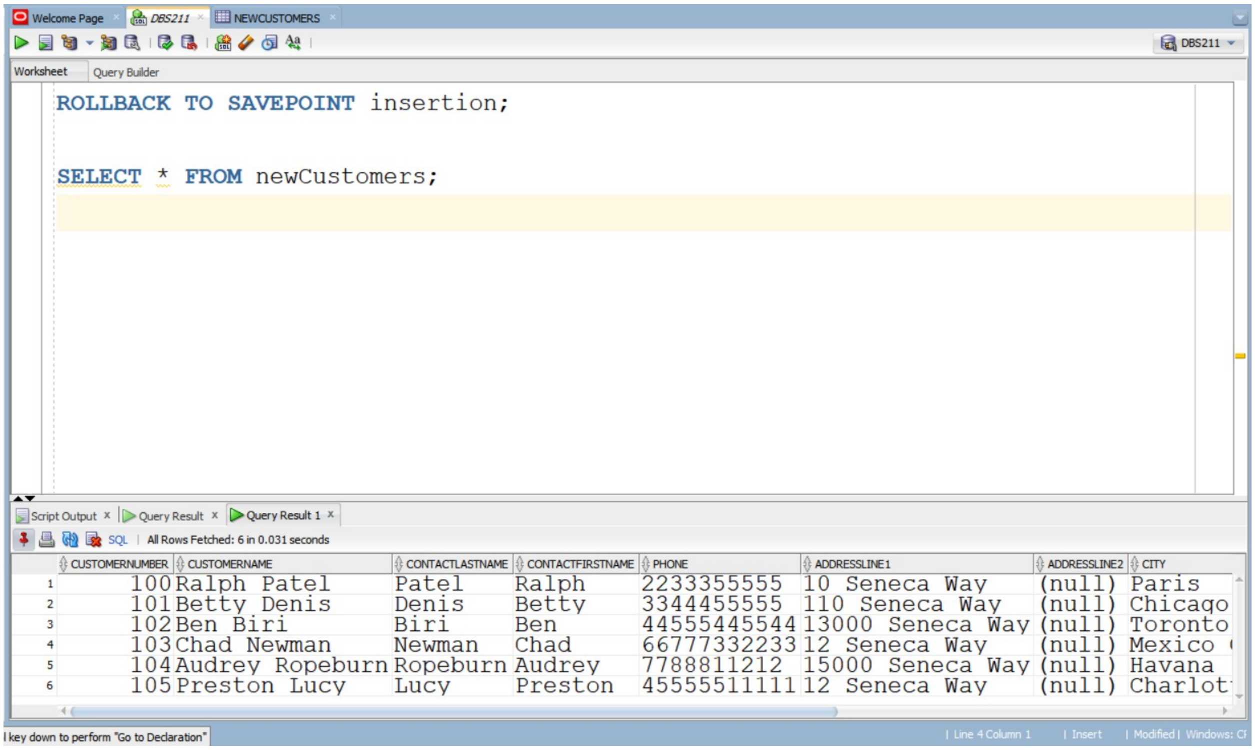
All Rows Fetched: 6 in 0.033 seconds

	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE
1	100	Ralph Patel	Patel	Ralph	2233355555	unknown	(null)	Paris	(null
2	101	Betty Denis	Denis	Betty	3344455555	unknown	(null)	Chicago	(null
3	102	Ben Biri	Biri	Ben	44555445544	unknown	(null)	Toronto	(null
4	103	Chad Newman	Newman	Chad	66777332233	unknown	(null)	Mexico City	(null
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	unknown	(null)	Havana	(null
6	105	Preston Lucy	Lucy	Preston	45555511111	unknown	(null)	Charlotte	(null

Q14

ROLLBACK TO SAVEPOINT insertion;

SELECT * FROM newCustomers;



```
ROLLBACK TO SAVEPOINT insertion;

SELECT * FROM newCustomers;
```

All Rows Fetched: 6 in 0.031 seconds

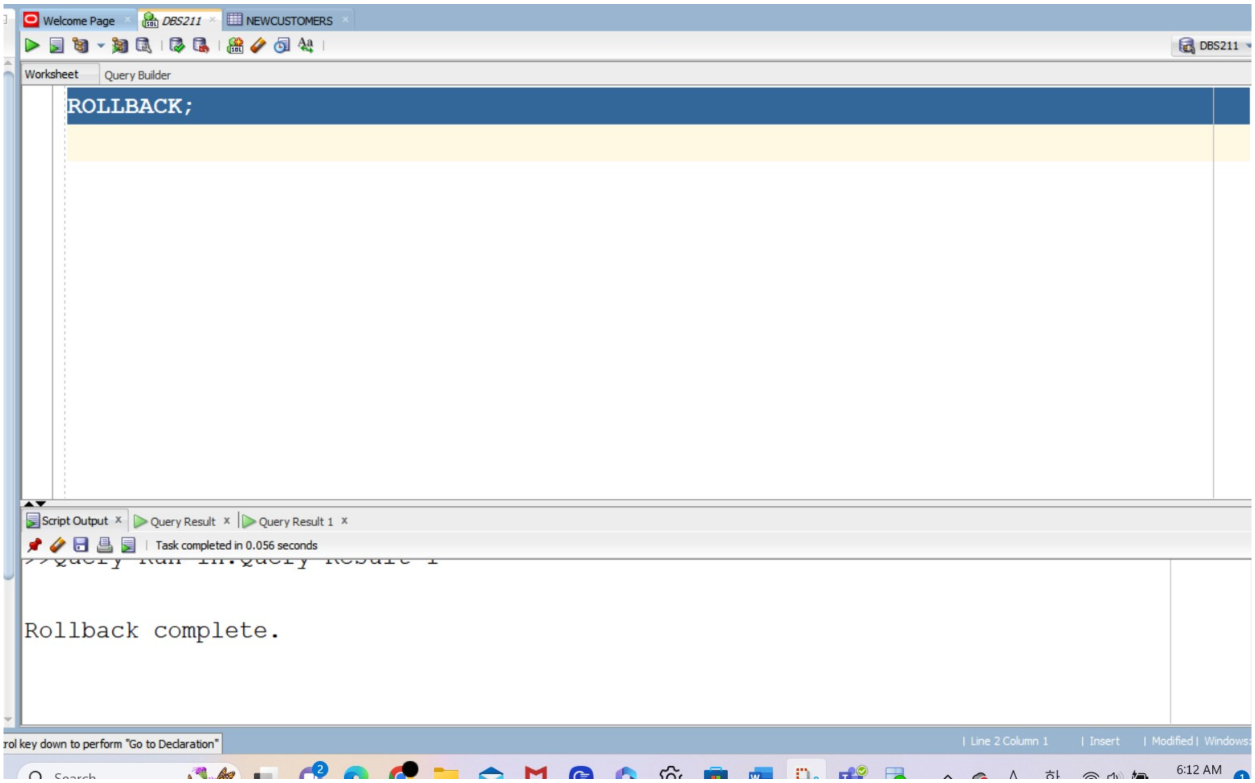
	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY
1	100	Ralph Patel	Patel	Ralph	2233355555	10 Seneca Way	(null)	Paris
2	101	Betty Denis	Denis	Betty	3344455555	110 Seneca Way	(null)	Chicago
3	102	Ben Biri	Biri	Ben	44555445544	13000 Seneca Way	(null)	Toronto
4	103	Chad Newman	Newman	Chad	66777332233	12 Seneca Way	(null)	Mexico
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	15000 Seneca Way	(null)	Havana
6	105	Preston Lucy	Lucy	Preston	45555511111	12 Seneca Way	(null)	Charlot

After executing the ROLLBACK TO SAVEPOINT insertion statement, the transaction is rolled back to the savepoint named "insertion." This means that all changes made after the savepoint, including the update statement from Question 6, are undone, and the data is reverted to its state at the savepoint.

As a result, the addressLine1 column of the newCustomers table is restored to its previous values, which were present when the savepoint was set. The update that set all addressLine1 values to 'unknown' is rolled back.

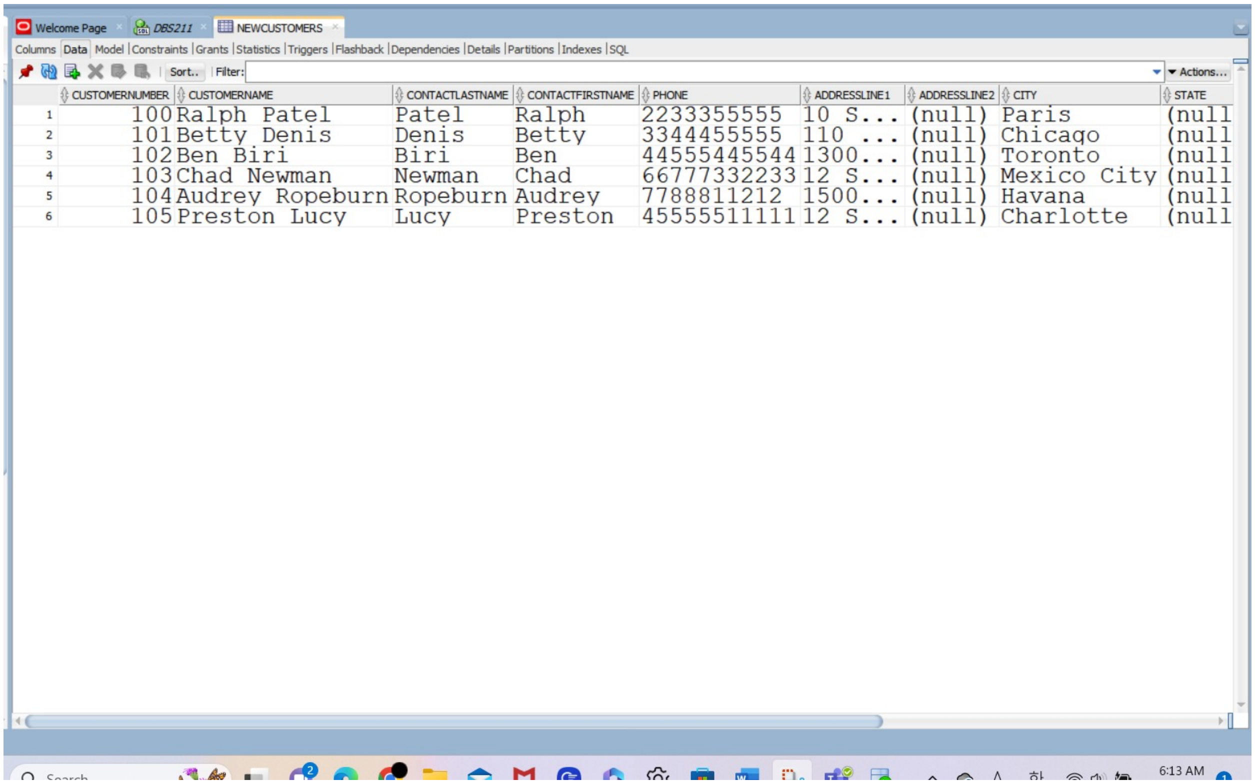
Q15

ROLLBACK;



```
ROLLBACK;
```

```
>>Query Run In:Query Result 1

Rollback complete.
```

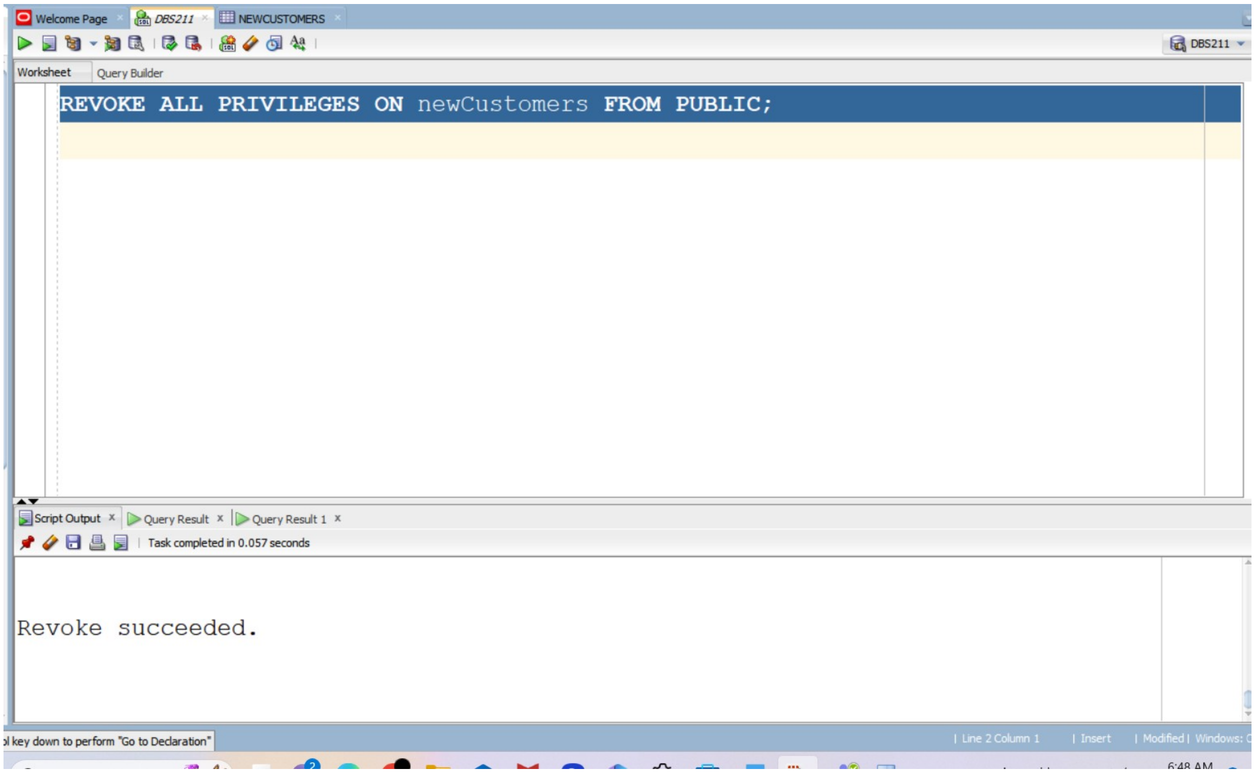


	CUSTOMERNUMBER	CUSTOMERNAME	CONTACTLASTNAME	CONTACTFIRSTNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE
1	100	Ralph Patel	Patel	Ralph	2233355555	10 S...	(null)	Paris	(null
2	101	Betty Denis	Denis	Betty	3344455555	110 ...	(null)	Chicago	(null
3	102	Ben Biri	Biri	Ben	44555445544	1300...	(null)	Toronto	(null
4	103	Chad Newman	Newman	Chad	66777332233	12 S...	(null)	Mexico City	(null
5	104	Audrey Ropeburn	Ropeburn	Audrey	7788811212	1500...	(null)	Havana	(null
6	105	Preston Lucy	Lucy	Preston	45555511111	12 S...	(null)	Charlotte	(null

If we execute the ROLLBACK statement without specifying a savepoint, it will roll back the entire transaction to its starting point, discarding all changes made during the transaction. This includes any insertions, updates, or deletions performed within the transaction. After executing the ROLLBACK statement, if you run the SELECT * FROM newCustomers query again, you will see the data in its original state before the transaction began. All modifications made within the transaction, including the initial data insertion and any subsequent updates, will be discarded. The results will show the original data that existed in the newCustomers table before the transaction started. Any changes made during the transaction will no longer be reflected in the table.

Q16

REVOKE ALL PRIVILEGES ON newCustomers FROM PUBLIC;

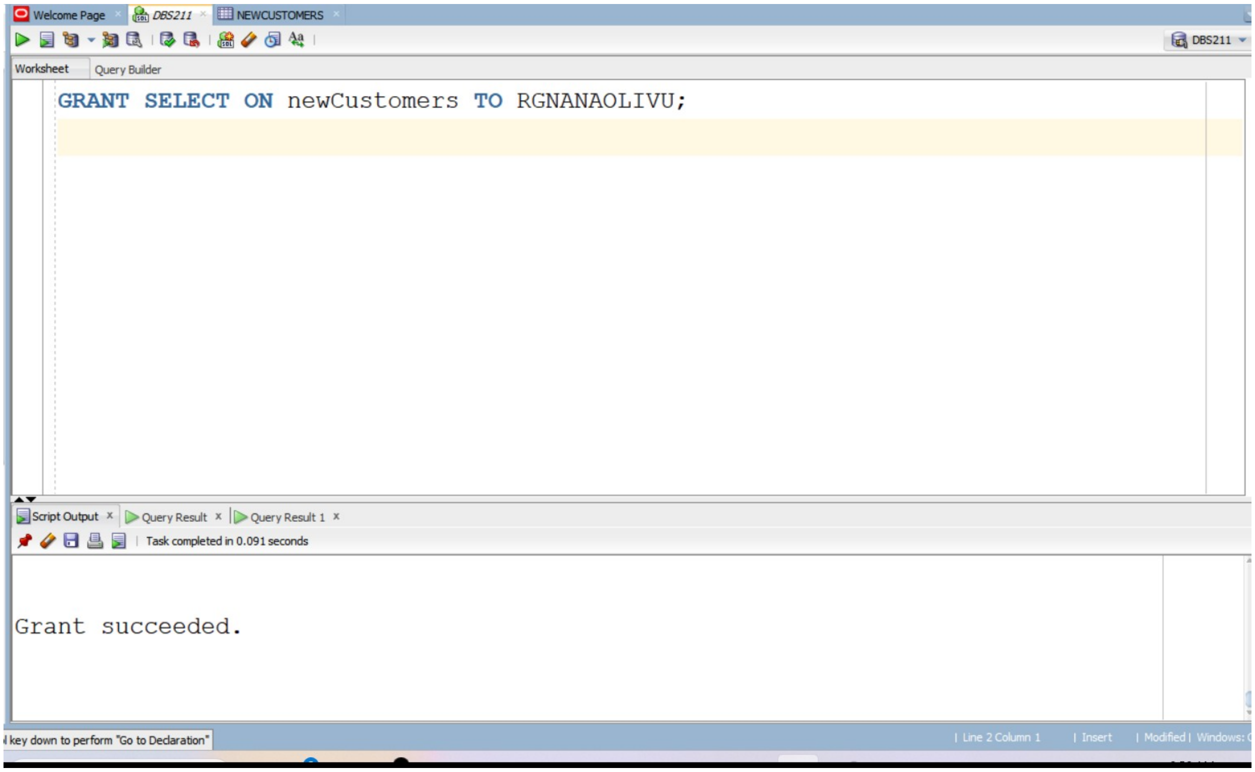


```
REVOKE ALL PRIVILEGES ON newCustomers FROM PUBLIC;
```

```
Revoke succeeded.
```

Q17

GRANT SELECT ON newCustomers TO RGNANAOLIVU;



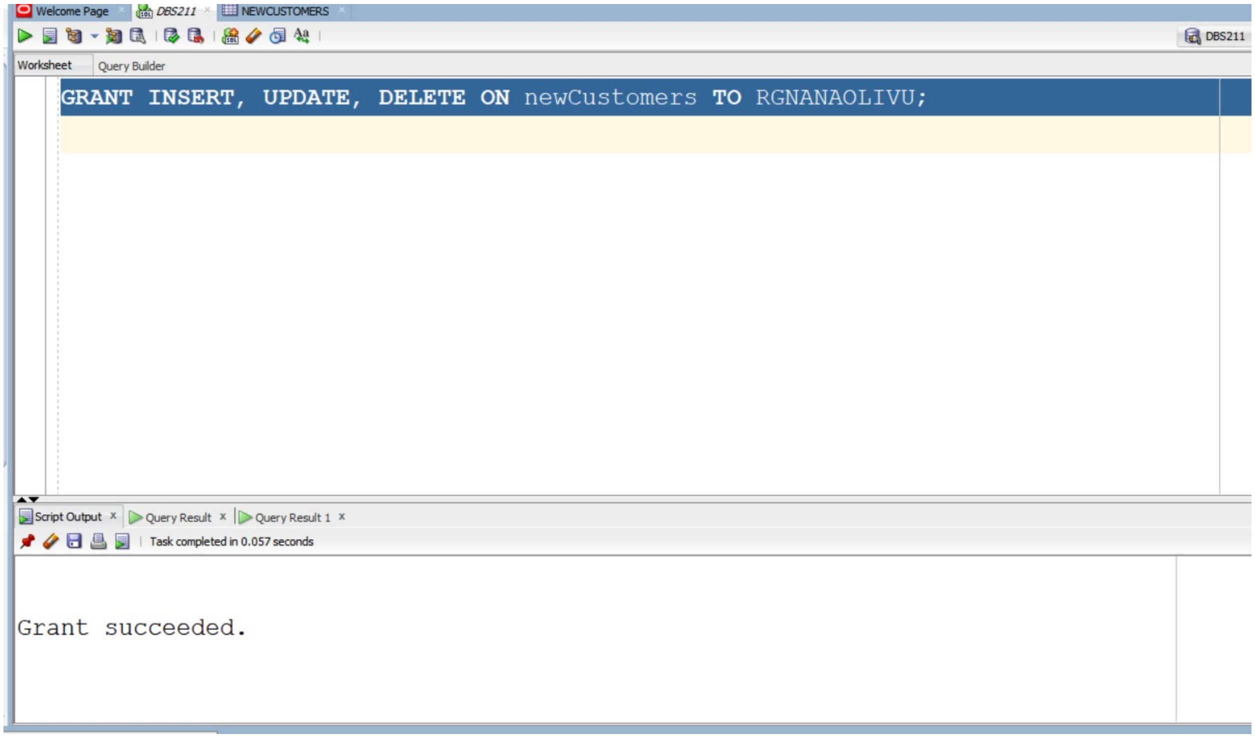
```
GRANT SELECT ON newCustomers TO RGNANAOLIVU;
```

Task completed in 0.091 seconds

```
Grant succeeded.
```

Q18

GRANT INSERT, UPDATE, DELETE ON newCustomers TO RGNANAOLIVU;

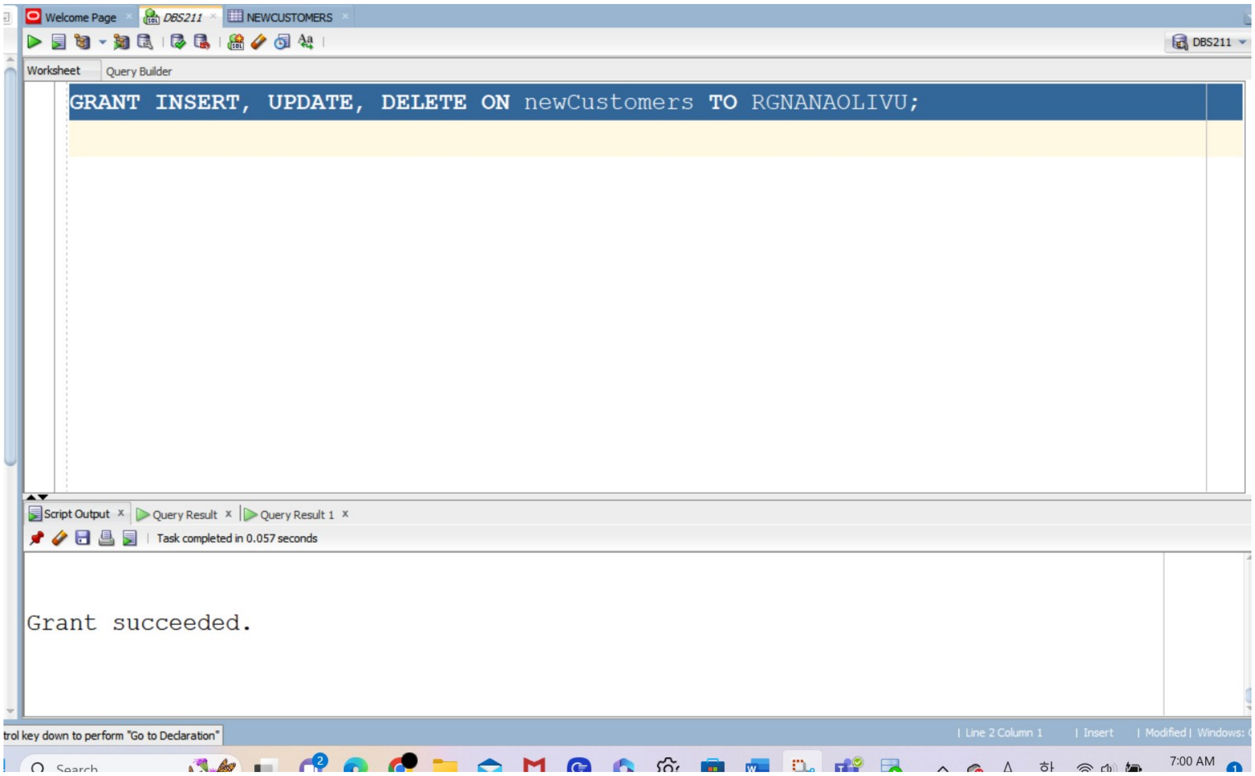


```
GRANT INSERT, UPDATE, DELETE ON newCustomers TO RGNANAOLIVU;
```

```
Grant succeeded.
```

Q19

GRANT INSERT, UPDATE, DELETE ON newCustomers TO RGNANAOLIVU;



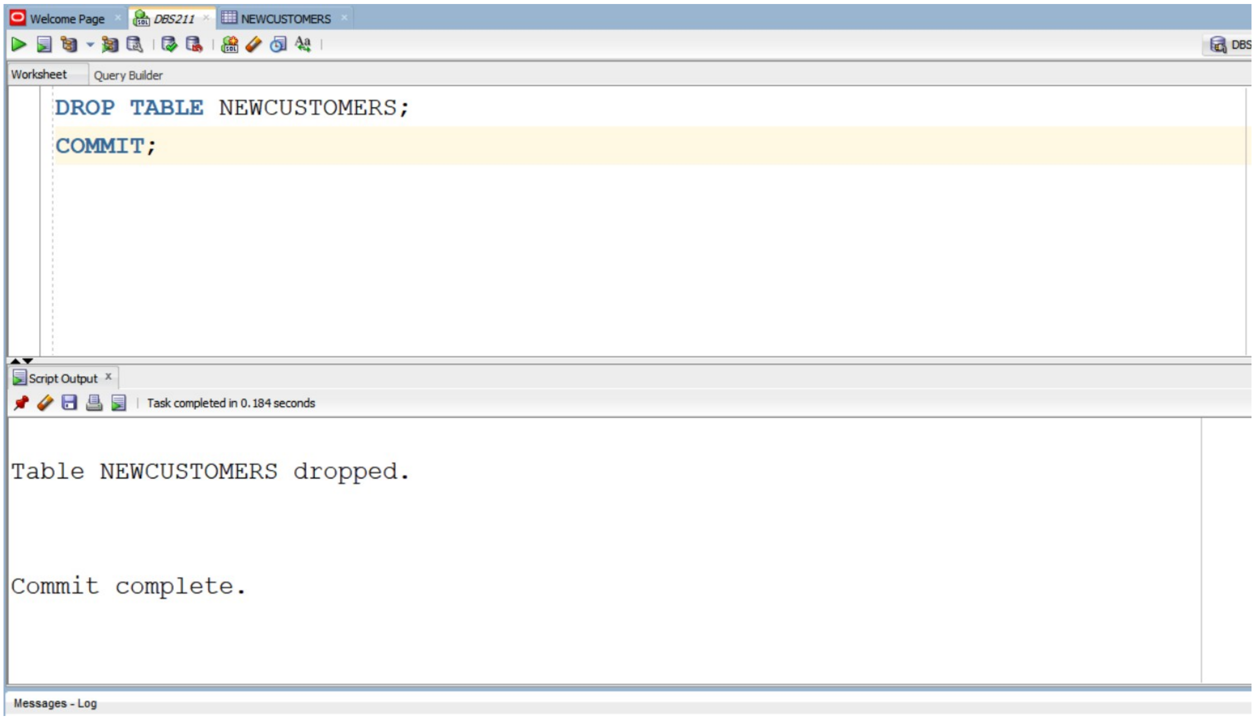
```
GRANT INSERT, UPDATE, DELETE ON newCustomers TO RGNANAOLIVU;
```

```
Grant succeeded.
```

Q20

DROP TABLE NEWCUSTOMERS;

COMMIT;



```
DROP TABLE NEWCUSTOMERS;
COMMIT;
```

```
Table NEWCUSTOMERS dropped.


Commit complete.
```