

<i>Student Name</i>	<i>Lin Rui</i>
<i>Maynooth ID</i>	<i>21124264</i>

<i>Student Name</i>	<i>林锐</i>
<i>FZU ID</i>	<i>832103316</i>

CS130 Databases

Lab 8 Report

QUESTION 1: Write an SQL statement to list all of the stores and the products they sell where the store is based in the state of Florida. You are asked to supply the number of rows returned by this query.

SQL Language:

```
SELECT * FROM lab8_stores, lab8_products
```

```
WHERE storestate = 'Florida'
```

Running result: 90 rows affected.

Query Editor

Query History

1

2

SELECT * FROM lab8_stores, lab8_products

WHERE storestate = 'Florida'

Messages

Successfully run. Total query runtime: 51 msec.
90 rows affected.

Data Output

Explain

Notifications

	storeid character varying	storename text	storeaddress text	storemanager text	storestate text	storerating text	productid character varying	productname text	price real	rating real	reviews integer	ranking integer
1	MZ32LX	Yambee	7 Pond Circle	Abby Eccleston	Florida	Very Good	A7H	SanDisk 32GB U...	13.95	4.5	8968	1
2	ZE093Z	Twinte	611 Atwood Pla...	Krishna Joye	Florida	Average	A7H	SanDisk 32GB U...	13.95	4.5	8968	1
3	BZ36RD	Eimbee	720 Eliot Park	Hinze Rutledge	Florida	Very Good	A7H	SanDisk 32GB U...	13.95	4.5	8968	1
4	AS64SB	Ntags	97946 Badeau ...	Sibbie Glasscoo	Florida	Excellent	A7H	SanDisk 32GB U...	13.95	4.5	8968	1
5	AE99DS	Kwimbee	07353 Summer ...	Torry Coram	Florida	Very Good	A7H	SanDisk 32GB U...	13.95	4.5	8968	1

QUESTION 2: Write an SQL statement to list all of the stores and the products they sell where the store sells products with prices between 10 and 50 dollars inclusive.

SQL Language:

```
SELECT * FROM lab8_stores, lab8_products
```

```
WHERE price BETWEEN 10 AND 50
```

Running result: 360 rows affected

Query Editor

Query History

1

SELECT * FROM lab8_stores, lab8_products

2

WHERE price BETWEEN 10 AND 50

Messages

Successfully run. Total query runtime: 61 msec.
360 rows affected.

Data Output

Explain

Notifications

	storeid character varying	storename text	storeaddress text	storemanager text	storestate text	storerating text	productid character varying	productname text	price real	rating real	reviews integer	ranking integer
1	FF6708	Geba	201 Shopko Drive	Rena Freddi	New York	Average	A7H	SanDisk 32GB U...	13.95	4.5	8968	1
2	FF6708	Geba	201 Shopko Drive	Rena Freddi	New York	Average	JK34	Anker Bluetooth...	23.99	4.3	6895	4
3	FF6708	Geba	201 Shopko Drive	Rena Freddi	New York	Average	9JK	Fire TV Stick wit...	39.99	4.1	23913	6
4	FF6708	Geba	201 Shopko Drive	Rena Freddi	New York	Average	NMA2	TaoTronics Dim...	29.99	3.1	13114	9
5	FF6708	Geba	201 Shopko Drive	Rena Freddi	New York	Average	JLPS	OtterBox Defend...	19.95	3.8	31284	13

QUESTION 3: Update the StoreID of the store with name 'Realpoint' to a new StoreID of CS130A '. You are asked to supply the TOTAL number of rows affected in the database by this update.

SQL Language:

```
BEGIN;
```

```
UPDATE lab8_stores
```

```
SET storeid = 'CS130A'
```

```
WHERE storename = 'Realpoint';
SELECT * FROM lab8_stores
WHERE storename = 'Realpoint'
COMMIT;
```

Running result: 1 rows affected.

The screenshot shows a database interface with several tabs: Query Editor, Query History, Messages, Data Output, Explain, and Notifications. The Query Editor tab is active, displaying a SQL script with 7 lines. The Messages tab shows a success message. The Data Output tab shows a table with 7 columns and 1 row of data.

Query Editor

```
1 BEGIN;
2 UPDATE lab8_stores
3 SET storeid = 'CS130A'
4 WHERE storename = 'Realpoint';
5 SELECT * FROM lab8_stores
6 WHERE storename = 'Realpoint'
7 COMMIT;
```

Messages

Successfully run. Total query runtime: 55 msec.
1 rows affected.

Data Output

	storeid character varying	storename text	storeaddress text	storemanager text	storestate text	storerating text
1	CS130A	Realpoint	08 Blue Bill Park...	Harriet Tremonta...	South Dakota	Excellent

QUESTION 4: The Store named Twitterbridge with StoreID YK67IA is ceasing trading. Delete this store from the database . You are asked to provide the TOTAL number of rows affected in the database by this deletion.

SQL Language:

```
BEGIN;
DELETE FROM lab8_stores
WHERE storename='Twitterbridge' AND storeid='YK67IA'
COMMIT;
```

Running result: DELETE 1

The screenshot shows a database interface with several tabs: Query Editor, Query History, Messages, Data Output, Explain, and Notifications. The Query Editor tab is active, displaying a SQL script with 4 lines. The Messages tab shows a success message.

Query Editor

```
1 BEGIN;
2 DELETE FROM lab8_stores
3 WHERE storename='Twitterbridge' AND storeid='YK67IA'
4 COMMIT;
```

Messages

DELETE 1
Query returned successfully in 49 msec.

QUESTION 5: The current store manager of the store named 'Zoomdog' is being replaced by a new manager called Susan Reid. Write an SQL statement to perform this update to the database. You are asked to provide the TOTAL number of rows affected by this update.

SQL Language:

```
BEGIN;
UPDATE lab8_stores
SET storemanager = 'Susan Reid'
WHERE storename = 'Zoomdog';
SELECT * FROM lab8_stores
WHERE storename = 'Zoomdog';
COMMIT;
```

Running result: 1 rows affected

Query Editor
Query History

```

1 BEGIN;
2 UPDATE lab8_stores
3 SET storemanager = 'Susan Reid'
4 WHERE storename = 'Zoomdog';
5 SELECT * FROM lab8_stores
6 WHERE storename = 'Zoomdog';
7 COMMIT;

```

Messages

Successfully run. Total query runtime: 45 msec.
1 rows affected.

Data Output
Explain
Notifications

	storeid character varying	storename text	storeaddress text	storemanager text	storestate text	storerating text
1	EE59GR	Zoomdog	17 John Wall Te...	Susan Reid	California	Very Good

QUESTION 6: The price of the product SanDisk 32GB Ultra Class Memory Card is being increased by 10% for sale at all stores. Write an SQL Statement to perform this update to the database. You are asked to provide the TOTAL Number of rows affected by this update statement.

SQL Language:

BEGIN;

UPDATE lab8_products

SET price = price*1.1

WHERE productname = 'SanDisk 32GB Ultra Class Memory Card'

COMMIT;

Running result: UPDATE 1

Query Editor
Query History

```

1 BEGIN;
2 UPDATE lab8_products
3 SET price = price*1.1
4 WHERE productname = 'SanDisk 32GB Ultra Class Memory Card'
5 COMMIT;

```

Messages

UPDATE 1

Query returned successfully in 46 msec.

QUESTION 7: Write an SQL Statement to delete the product 'ARRIS SURFBoard '. You are asked to provide the total number of rows affected by this statement.

SQL Language:

BEGIN;

DELETE FROM lab8_products

WHERE productname~*'ARRIS SURFBoard';

COMMIT;

Running result: 1 rows returned

Query Editor
Query History

```

1 BEGIN;
2 DELETE FROM lab8_products
3 WHERE productname~*'ARRIS SURFBoard';
4 COMMIT;

```

Data Output
Explain
Messages
Notifications

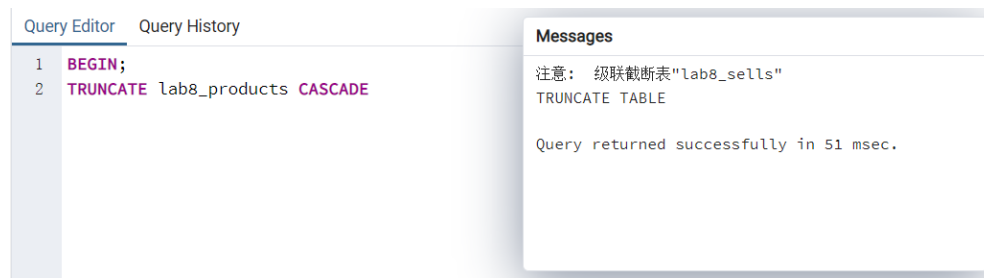
DELETE 1

Query returned successfully in 45 msec.

QUESTION 8: Use a transaction block to test what happens when you TRUNCATE the Lab8_Products table.

SQL Language:

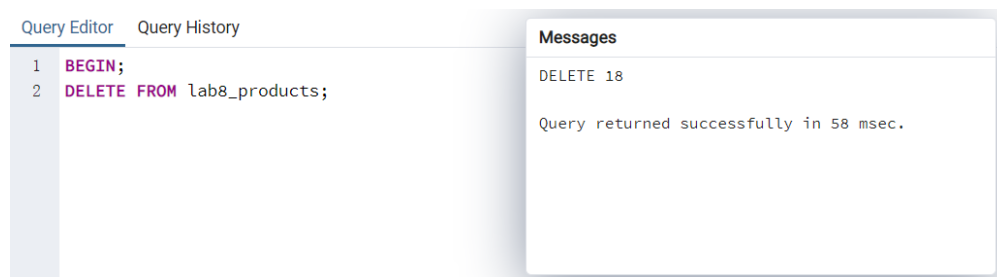
```
BEGIN;  
TRUNCATE lab8_products CASCADE  
Running result: TRUNCATE TABLE
```



The screenshot shows a SQL IDE interface. On the left, the 'Query Editor' tab is active, displaying two lines of SQL code: `1 BEGIN;` and `2 TRUNCATE lab8_products CASCADE`. On the right, the 'Messages' pane shows a warning message: '注意: 级联截断表"lab8_sells"' (Warning: Cascade truncate table "lab8_sells"), followed by 'TRUNCATE TABLE' and 'Query returned successfully in 51 msec.'

QUESTION 9: Use a transaction block to test what happens when you DELETE the Lab8_Products table.
SQL Language:

```
BEGIN;  
DELETE FROM lab8_products  
Running result: DELETE 18
```



The screenshot shows a SQL IDE interface. On the left, the 'Query Editor' tab is active, displaying two lines of SQL code: `1 BEGIN;` and `2 DELETE FROM lab8_products;`. On the right, the 'Messages' pane shows the result 'DELETE 18' and 'Query returned successfully in 58 msec.'