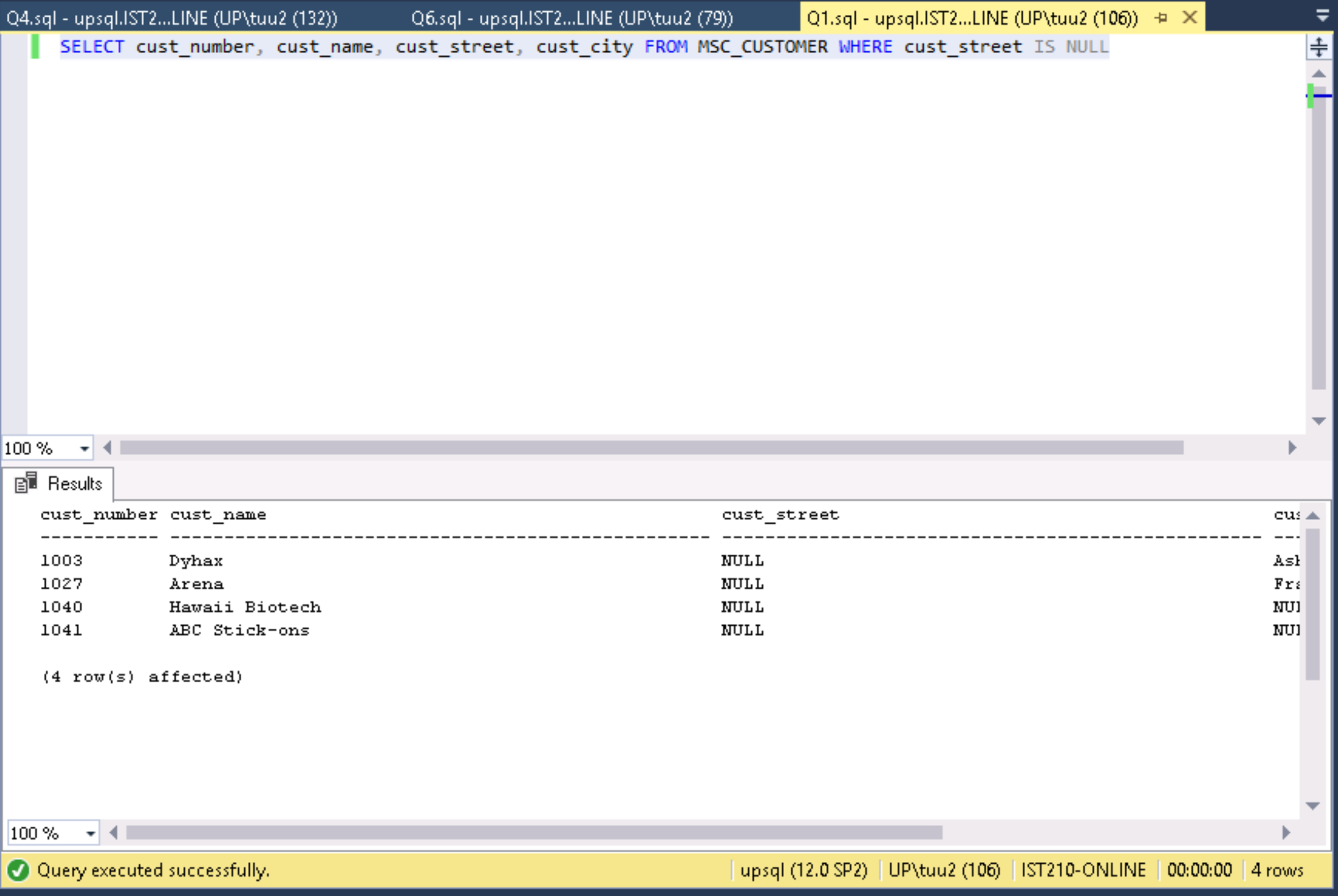
**Question 1:** Use the NULL keyword to display the cust\_number, cust\_name and cust\_city for records that have no value for the field cust\_street in the table MSC\_CUSTOMER.

* To find records with NULL values for their cust\_street has no value, SELECT cust\_number, cust\_name, cust\_street, cust\_city FROM the MSC\_CUSTOMER table, isolating rows where cust\_street is NULL.
* SELECT cust\_number, cust\_name, cust\_street, cust\_city FROM MSC\_CUSTOMER WHERE cust\_street IS NULL



cust\_number cust\_name cust\_street cust\_city

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1003 Dyhax NULL Ashland City

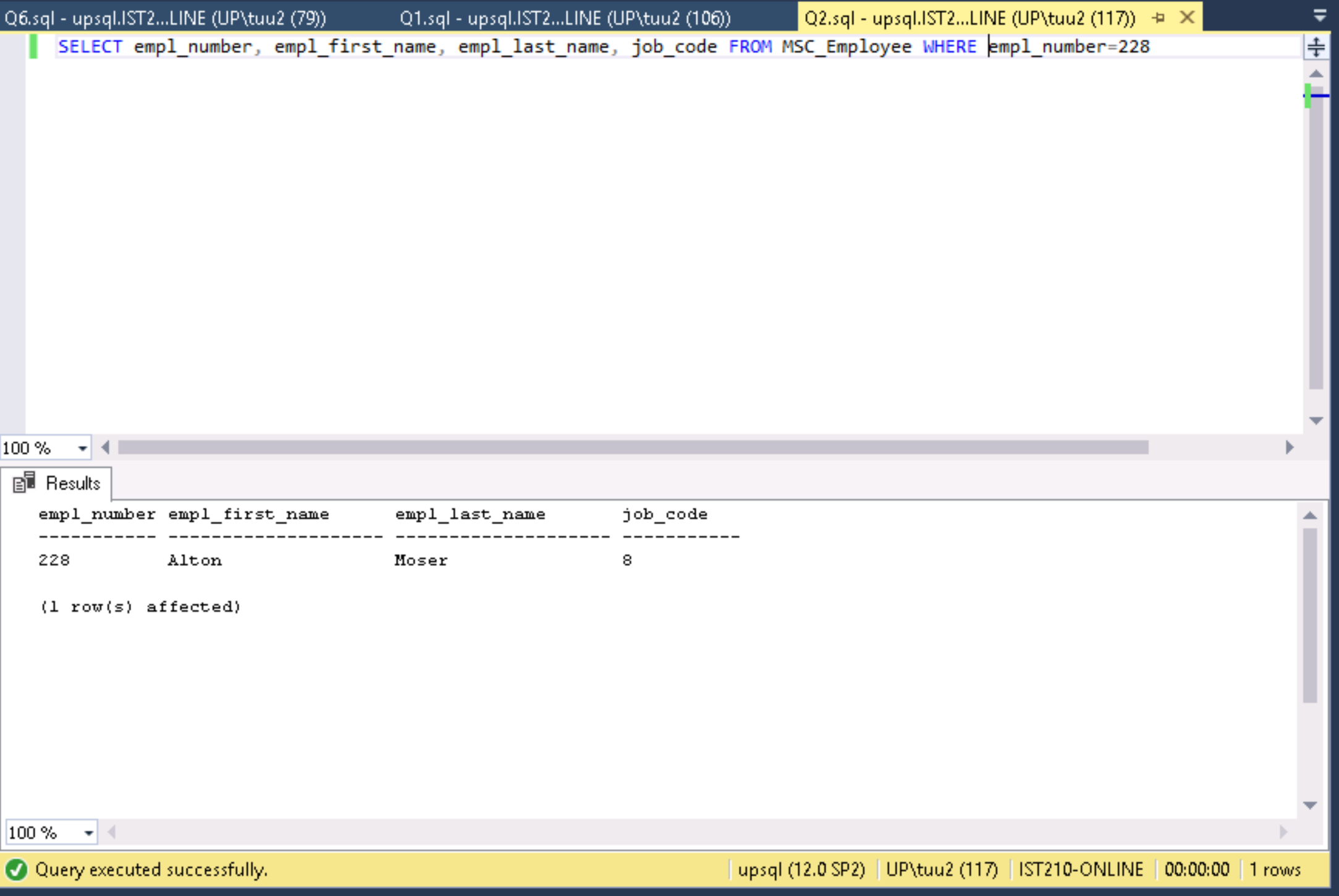
1027 Arena NULL Franklin

1040 Hawaii Biotech NULL NULL

1041 ABC Stick-ons NULL NULL

(4 row(s) affected)**Question 2:** Display empl\_first\_name, empl\_last\_name and job\_code for employee number 228.

* To display empl\_first\_name, empl\_last\_name and job\_code, use a SELECT statement for those values FROM the MSC\_Employee table, choosing WHERE the empl\_number matches empl\_number=228.
* SELECT empl\_first\_name, empl\_last\_name, job\_code FROM MSC\_Employee WHERE empl\_number=228

****

**empl\_number empl\_first\_name empl\_last\_name job\_codeas**

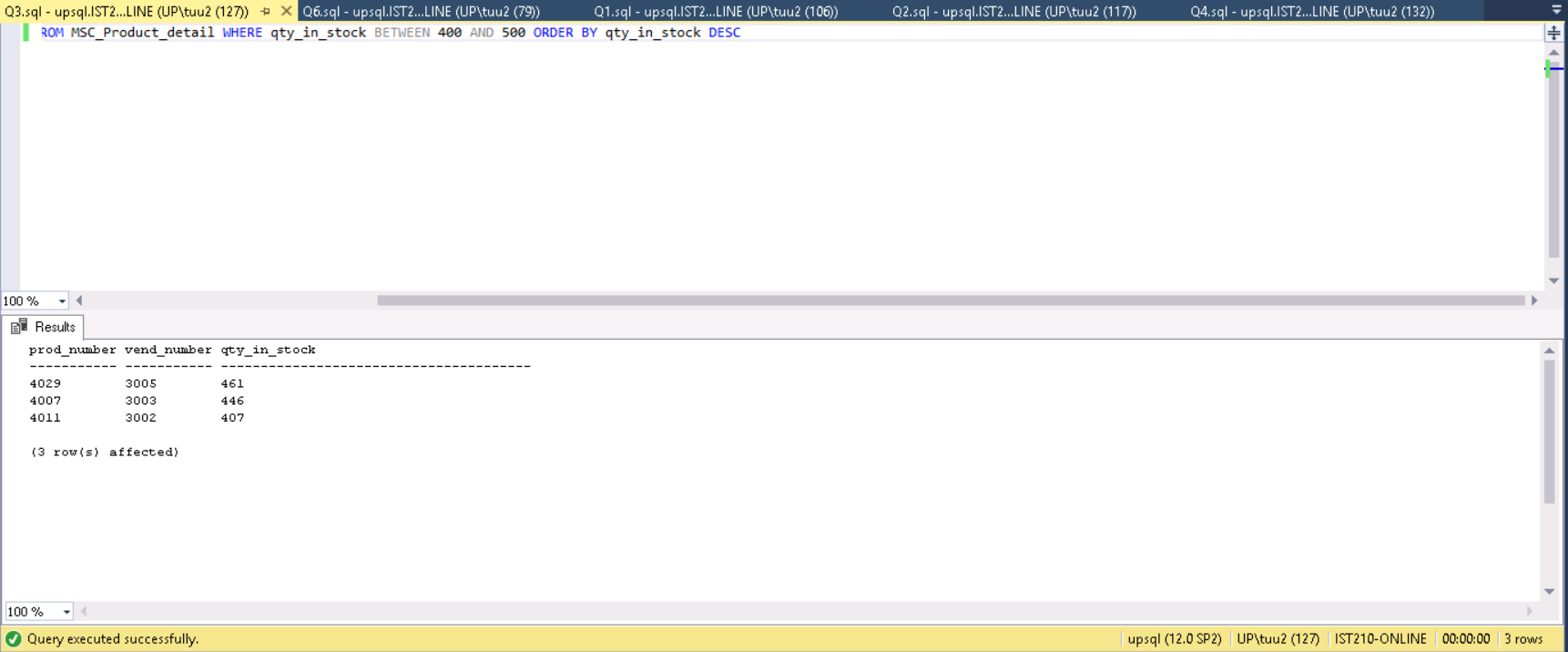
**----------- -------------------- -------------------- -----------**

**228 Alton Moser 8**

**(1 row(s) affected)**

**Question 3:** Display the product number, vendor number and quantity in stock value for product detail where the quantity in stock is in the 400 to 500 range from the MSC\_product\_detail table sorted in descending order by quantity in stock value.

* To display ‘prod\_number’, ‘vend\_number’ and ‘qty\_in\_stock’, SELECT those values from ‘MSC\_product\_detail’ table, isolating only rows WHERE ‘qty\_in\_stock’ is BETWEEN 400 AND 500, choosing to order the rows by using ORDERBY qty\_in\_stock in DESC order.
* SELECT prod\_number, vend\_number, qty\_in\_stock FROM MSC\_Product\_detail WHERE qty\_in\_stock BETWEEN 400 AND 500 ORDER BY qty\_in\_stock DESC

****

prod\_number vend\_number qty\_in\_stock

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4029 3005 461

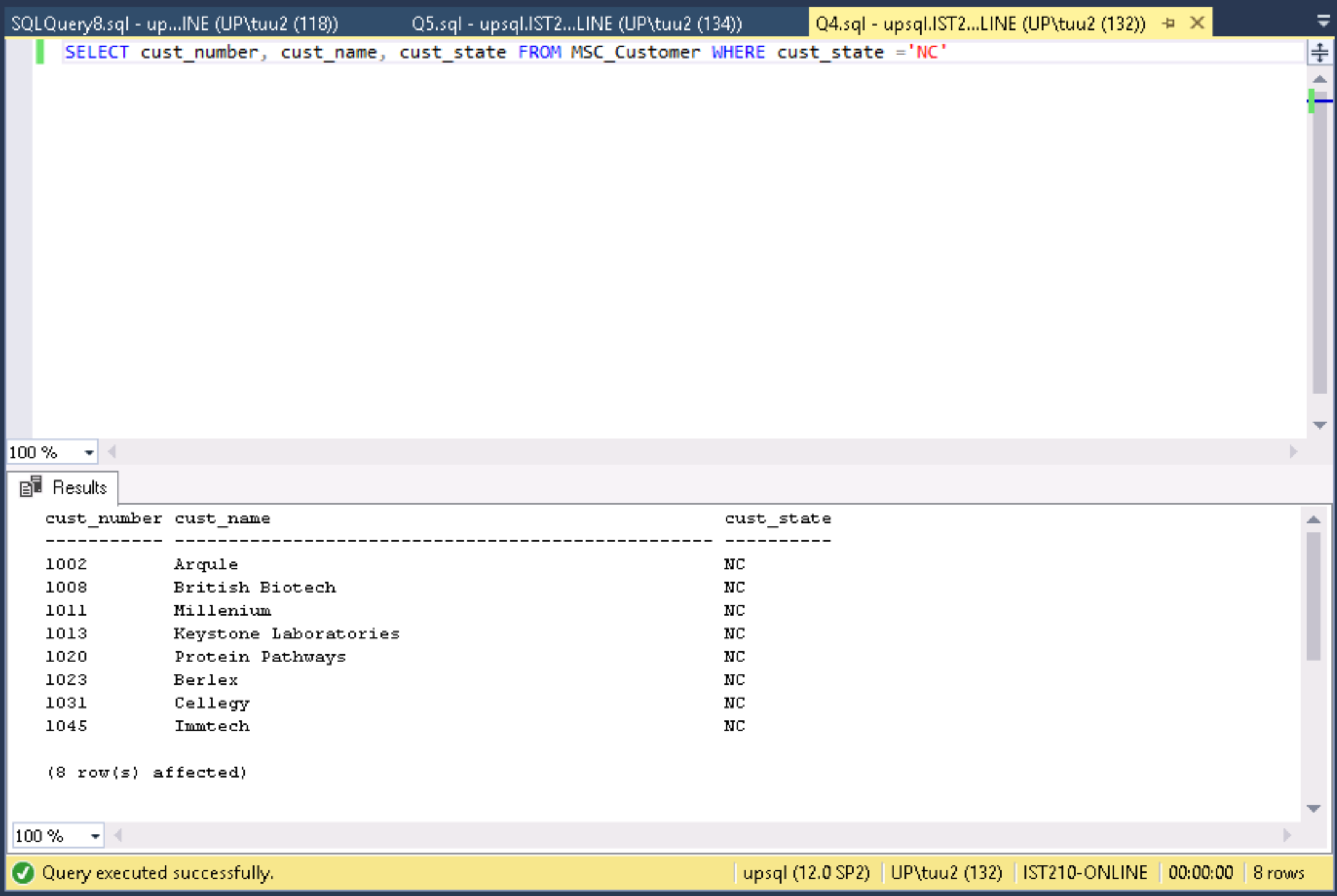
4007 3003 446

4011 3002 407

(3 row(s) affected)

**Question 4:** Display the number (tally) of customers who are located in the state of North Carolina.

* To find customers in state of North Carolina, SELECT cust\_num (PK) from the MSC\_Customer table, identifying customers WHERE their ‘cust\_state’ is in NC (North Carolina state code).
* SELECT cust\_number, cust\_name, cust\_state FROM MSC\_Customer WHERE cust\_state ='NC'



cust\_number cust\_name cust\_state

----------- -------------------------------------------------- ----------

1002 Arqule NC

1008 British Biotech NC

1011 Millenium NC

1013 Keystone Laboratories NC

1020 Protein Pathways NC

1023 Berlex NC

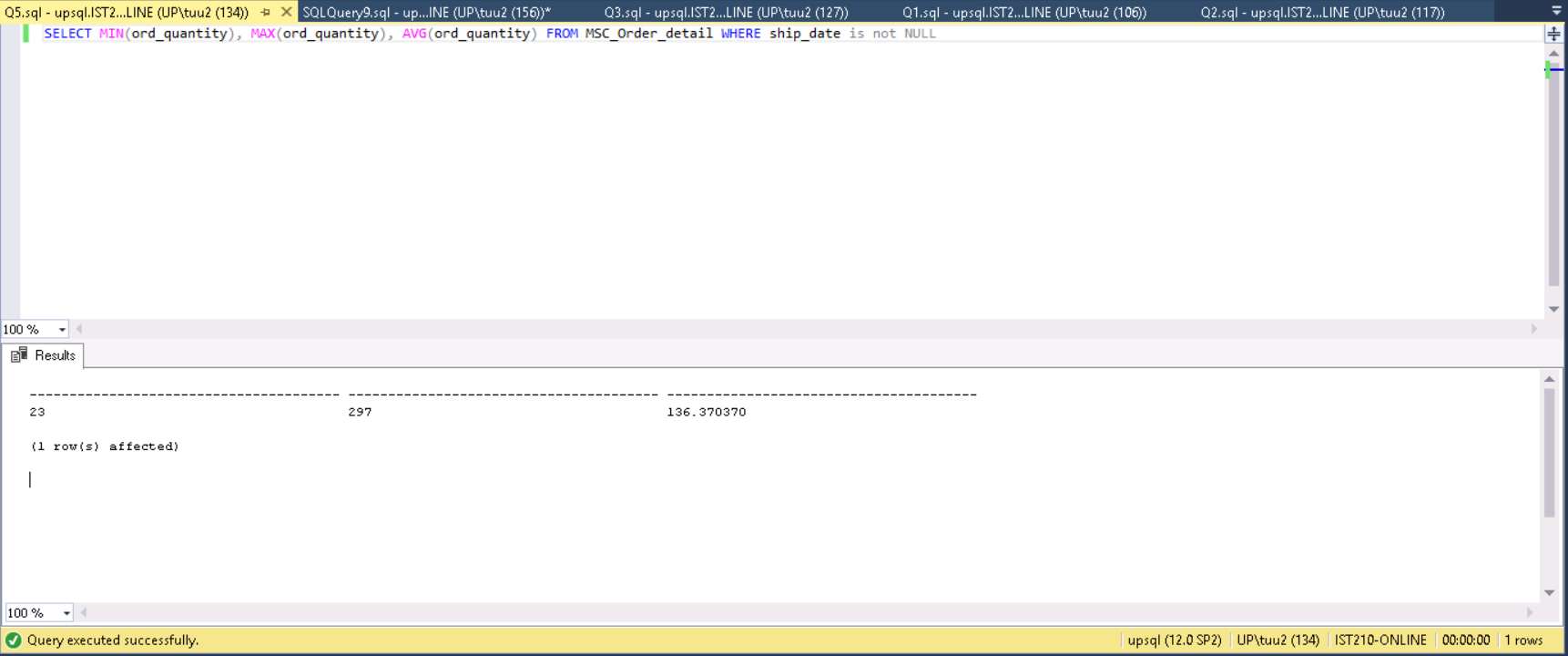
1031 Cellegy NC

1045 Immtech NC

(8 row(s) affected)

**Question 5:** Display the minimum, maximum and average ship quantities for all order details. Note: only include entries if the order has been shipped.

* To display min, max, and avg ship quantities for all orders, select MIN, MAX, and AVG order quantities (ord\_quantity) FROM MSC\_Order\_detail table, making sure that the ones selected to be min/max/avg are shipped (aka not null for ship date.
* SELECT MIN(ord\_quantity), MAX(ord\_quantity), AVG(ord\_quantity) FROM MSC\_Order\_detail WHERE ship\_date is not NULL



**(Min) (Max Avg**

**------------------------------------------------------------------------------------------------------------------**

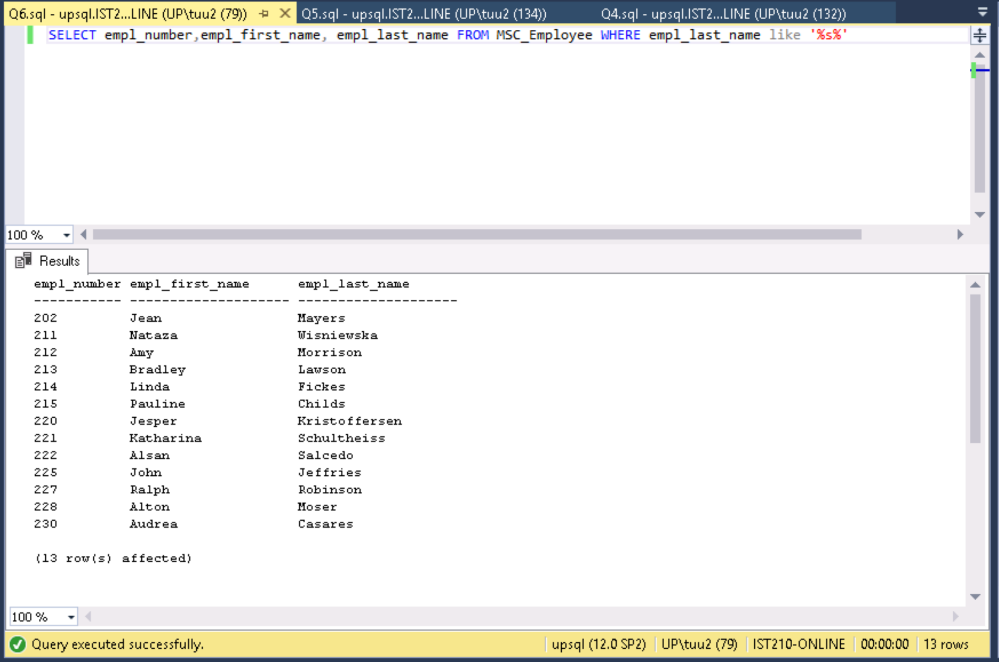
**23 297 136.370370**

**(1 row(s) affected)**

**Question 6:** Display employee number, first name and last name when the employee’s last name contains a letter ‘S’ (upper or lower case) anywhere in the last name.

* To show employees with last name containing the letter ‘s’, select from Employees table columns “empl\_number,empl\_first\_name, and empl\_last\_name”, then put search using LIKE for regex ‘%s%’ to find last names with character ‘s’ in them.
* SELECT empl\_number,empl\_first\_name, empl\_last\_name FROM MSC\_Employee WHERE empl\_last\_name LIKE '%s%'

empl\_number empl\_first\_name empl\_last\_name

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202 Jean Mayers

211 Nataza Wisniewska

212 Amy Morrison

213 Bradley Lawson

214 Linda Fickes

215 Pauline Childs

220 Jesper Kristoffersen

221 Katharina Schultheiss

222 Alsan Salcedo

225 John Jeffries

227 Ralph Robinson

228 Alton Moser

230 Audrea Casares

(13 row(s) affected)

REFERENCE

1. SELECT cust\_number, cust\_name, cust\_city FROM MSC\_CUSTOMER WHERE cust\_street IS NULL

2. SELECT empl\_first\_name, empl\_last\_name, job\_code FROM MSC\_Employee WHERE empl\_number=228

3. SELECT prod\_number, vend\_number, qty\_in\_stock FROM MSC\_Product\_detail WHERE qty\_in\_stock BETWEEN 400 AND 500 ORDERBY qty\_in\_stock DESC

4. SELECT cust\_number FROM MSC\_Customer WHERE cust\_state ='NC'

5. SELECT MIN(ord\_quantity), MAX(ord\_quantity), AVG(ord\_quantity) FROM MSC\_Order\_detail

6. SELECT empl\_number,empl\_first\_name, empl\_last\_name FROM MSC\_Employee WHERE empl\_last\_name LIKE '%s%'

Lab 4 is enter the code -> copy result \_> paste result -> take a screenshot of result using snipping tool-> paste

Remember rows affected.

**LAB 4 DOCUMENTATION: https://www.up.ist.psu.edu/documentation/IST210/D3WgqIrD/lab4.php**

**LAB 4 EXAMPLE SQL STATEMENTS: https://www.up.ist.psu.edu/documentation/IST210/D3WgqIrD/lab4demo.php**