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CPSC 332

Professor Han

Assignment 2

Query #1

Submission 6.sql - ...332.master (sa (58)) Submission5.sql - Z...332.master (sa (57)) Submission4.sql - Z...332.master (sa (56))* Te

```
--Question 1
/* List the name and ID of customers who made a sales transaction on 2/1/2011. */
-- 1A: Write this query using the 'in' or a quantified predicate.
SELECT C.cname, C.cid
FROM   customer AS C
WHERE  C.cid IN ( SELECT S.custid
                  FROM   salestrans AS S
                  WHERE  S.sdate = '2/1/2011');

-- 1B: Write this query using the exists predicate.
SELECT C.cname, C.cid
FROM   customer AS C
WHERE  EXISTS ( SELECT *
                FROM   salestrans AS S
                WHERE  C.cid = S.custid AND S.sdate = '2/1/2011');

-- 1C: Write this query as a single block query.
SELECT C.cname, C.cid
FROM   customer AS C, salestrans AS S
WHERE  C.cid = S.custid AND S.sdate = '2/1/2011';
```

110 %

Results Messages

	cname	cid
1	Tina	1-2-333
2	Tony	2-3-444
3	Pam	4-5-666

	cname	cid
1	Tina	1-2-333
2	Tony	2-3-444
3	Pam	4-5-666

	cname	cid
1	Tina	1-2-333
2	Pam	4-5-666
3	Tony	2-3-444

Query executed successfully.

Query #2

Submission4.sql - Z...332.master (sa (56)) Submission2.sql - Z...332.master (sa (53))* Submission3.sql - Z...332.master (sa (

-- Question 2

/* List the customer name and store zipcode of all female customers who made a sales transaction at a store in the region named 'Chicagoland'. */

SELECT c.cname, s.szip

FROM customer AS c, salestrans AS st, region AS r, store AS s

WHERE c.cid = st.custid AND st.storeid = s.sid

AND s.rid = r.rid AND r.rname = 'Chicagoland'

AND c.gender = 'F';

110 %

Results Messages

	cname	szip
1	Tina	60600

✓ Query executed successfully.

Query #3

submission7.sql - Z...332.master (sa (59)) Submission4.sql - Z...332.master (sa (56)) Submission3.sql - Z...332.master (sa (54))

```
-- Question 3
/* List the customer name and customer zipcode of all customers who did not
   buy any items from store S2. */

-- 3A: Write this query using a nested query.
SELECT DISTINCT c1.cname, c1.czip
FROM   customer AS c1
WHERE  c1.cid NOT IN (SELECT c2.cid
                     FROM   salestrans AS st1, customer AS c2
                     WHERE  c2.cid = st1.custid AND
                           st1.storeid = 'S2');

-- 3B: Write this query using the EXCEPT operation (Oracle uses minus).
SELECT DISTINCT c1.cname, c1.czip
FROM   customer AS c1, salestrans AS st1
WHERE  c1.cid = st1.custid

EXCEPT

SELECT c2.cname, c2.czip
FROM   customer AS c2, salestrans AS st2
WHERE  c2.cid = st2.custid
      AND st2.storeid = 'S2';
```

121 %

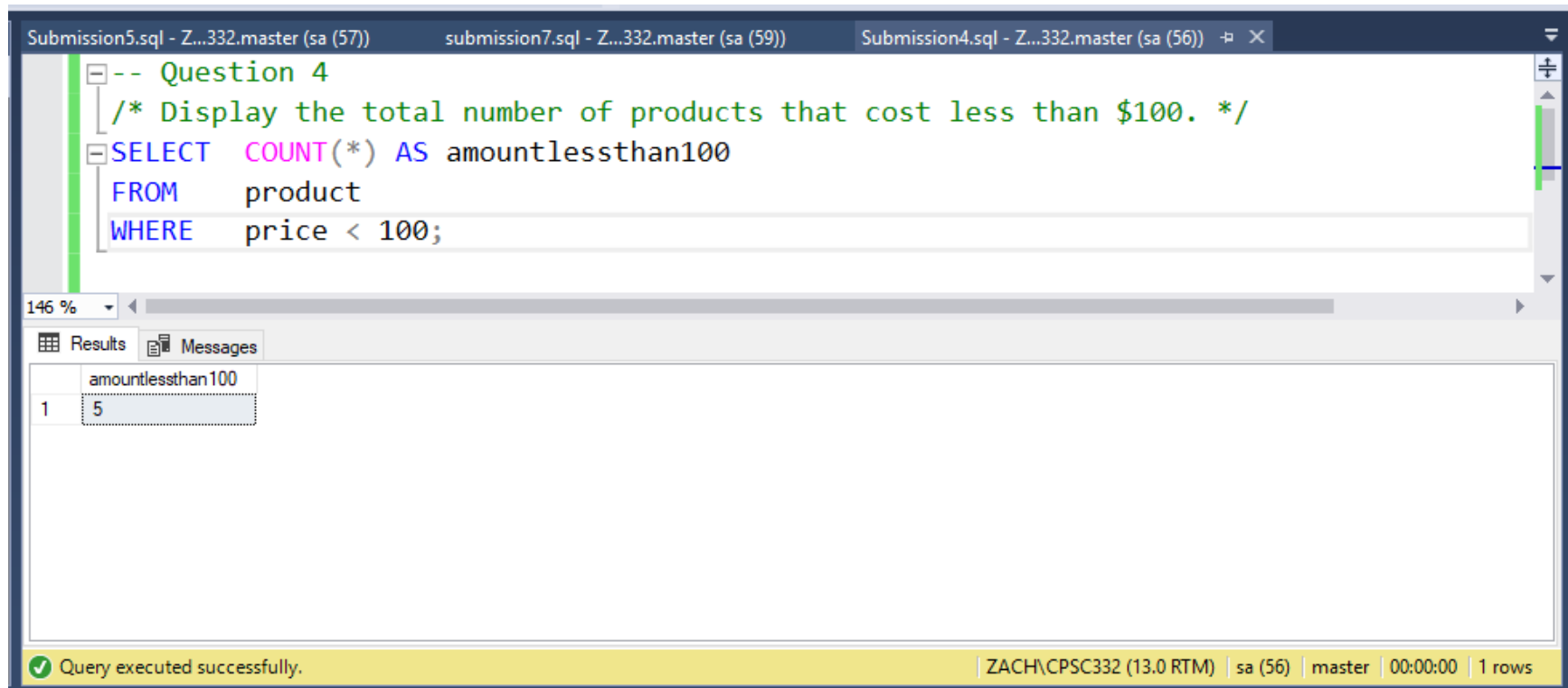
Results Messages

	cname	czip
1	Pam	35401
2	Tina	60137

	cname	czip
1	Pam	35401
2	Tina	60137

✓ Query executed successfully. ZACH\CPSC332 (13.0 RTM) sa (54) master 00:00:00 4 rows

Query #4



The screenshot shows a SQL query execution window with three tabs: "Submission5.sql - Z...332.master (sa (57))", "submission7.sql - Z...332.master (sa (59))", and "Submission4.sql - Z...332.master (sa (56))". The active tab is "Submission4.sql". The query text is as follows:

```
-- Question 4
/* Display the total number of products that cost less than $100. */
SELECT COUNT(*) AS amountlessthan100
FROM product
WHERE price < 100;
```

Below the query text, there is a zoom level of "146 %". The results are displayed in a table with two columns: "amountlessthan100" and a single row with the value "5".

	amountlessthan100
1	5

At the bottom of the window, a status bar indicates "Query executed successfully." and provides additional details: "ZACH\CPSC332 (13.0 RTM) | sa (56) | master | 00:00:00 | 1 rows".

Query #5

Submission4.sql - Z...332.master (sa (56)) Submission2.sql - Z...332.master (sa (53))* Submission3.sql - Z...332.master (sa (54)) Submission5.sql - Z...332.master (sa (57))

```
-- Question 5
/* For each vendor, display the vendor name and the cost of the product with the lowest cost in category CP. */

SELECT vname, price
FROM vendor, product
WHERE price IN (SELECT MIN(price)
                FROM product
                WHERE product.vid = 'PG' AND product.vid = vendor.vid AND categoryid = 'CP')
OR
price IN
(SELECT MIN(price)
 FROM product
 WHERE product.vid = 'MK' AND product.vid = vendor.vid AND categoryid = 'CP')
```

110 %

Results Messages

	vname	price
1	Mountain King	150.00
2	Pacifica Gear	2.00

✓ Query executed successfully. ZACH\CPSC332 (13.0 RTM) | sa (

Query #6

Submission 6.sql - ...332.master (sa (53))

```
--Question 6
/*Retrieve the TID and total number of products
sold for each transaction that has more than 1 product.*/

SELECT tid, SUM(numitems) AS soldpertid
FROM soldvia, salestrans
WHERE transid = tid
GROUP BY tid
HAVING SUM(numitems) > 1;
```

121 %

Results Messages

	tid	soldpertid
1	T333	6
2	T444	3
3	T555	7

✓ Query executed successfully. ZACH\CPSC332 (13.0 RTM) | sa (53) | master | 00:00:00 | 3 rows

Output

Query #7

Submission2.sql - Z...332.master (sa (53))* Submission5.sql - Z...332.master (sa (57)) submission7.sql - Z...332.master (sa (59))

--Question 7

```
/*List the region name, store id and store zip for all regions. Include all regions,  
even those regions without any stores. */
```

```
SELECT r.rname AS Region_Name, s.sid AS Store_ID, s.szip AS Store_Zip  
FROM   (region AS r LEFT OUTER JOIN store AS s  
        ON r.rid = s.rid);
```

110 %

Results Messages

	Region_Name	Store_ID	Store_Zip
1	Chicagoland	S1	60600
2	Chicagoland	S2	60605
3	Downstate	NULL	NULL
4	OutOfstate	NULL	NULL
5	Tristate	S3	35400

Query executed successfully. ZACH\CPSC332 (13.0 RTM) sa (59) master 00:00:00 5 rows