

BUAN 6320

## Database Foundations for Business Analytics

### Assignment 8

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#### # SOLUTION 1 #

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'SCHEMAS' tree with 'assignment\_8' selected. The central pane shows a SQL query in the 'SQL File 1' editor. The query is as follows:

```
12      (4, 'George', 'ACNE DIAB100'),  
13      (5, 'Alain', 'DIAB201');  
14  
15  • SELECT patient_id, patient_name, conditions  
16  FROM Patients  
17  WHERE conditions LIKE 'DIAB1%' OR conditions LIKE 'DIAB1% %' OR conditions LIKE '% DIAB1%'  
18  
19  
20
```

The 'Result Grid' below the query shows the following data:

patient_id	patient_name	conditions
3	Bob	DIAB100 MYOP
4	George	ACNE DIAB100

The bottom pane shows the 'Output' window with the following execution log:

#	Time	Action	Message	Duration / Fetch
7	20:29:29	SELECT patient_id, patient_name, conditions FROM Patients WHERE conditions LIKE 'DIA...	1 row(s) returned	0.000 sec / 0.000 sec
8	20:30:18	SELECT patient_id, patient_name, conditions FROM Patients WHERE conditions LIKE 'DIA...	1 row(s) returned	0.000 sec / 0.000 sec
9	20:31:58	SELECT patient_id, patient_name, conditions FROM Patients WHERE conditions LIKE 'DIA...	2 row(s) returned	0.015 sec / 0.000 sec

#### # Solution 2 #

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema: assignment\_8

```

38
39 SELECT LOWER(TRIM(product_name)) AS product_name,
40        DATE_FORMAT(sale_date, '%Y-%m') AS sale_date,
41        COUNT(*) AS total
42 FROM Sales
43 GROUP BY LOWER(TRIM(product_name)), DATE_FORMAT(sale_date, '%Y-%m')
44 ORDER BY product_name ASC, sale_date ASC;
45
46

```

product_name	sale_date	total
lckeychain	2000-02	2
lphone	2000-01	2
lphone	2000-02	1
matryoshka	2000-03	1

Result 10 x

Output

#	Time	Action	Message	Duration / Fetch
19	20:47:30	SELECT LOWER(TRIM(product_name)) AS product_name, DATE_FORMAT(sale_date...	Error Code: 1054. Unknown column 'sale_month' in 'order clause'	0.000 sec
20	20:49:03	SELECT LOWER(TRIM(product_name)) AS product_name, DATE_FORMAT(sale_date...	Error Code: 1054. Unknown column 'sale_month' in 'order clause'	0.000 sec
21	20:51:27	SELECT LOWER(TRIM(product_name)) AS product_name, DATE_FORMAT(sale_date...	4 row(s) returned	0.000 sec / 0.000 sec

### # Solution 3 #

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema: assignment\_8

```

79 -- Query to find customers who visited without making any transactions
80 SELECT v.customer_id AS customer_id,
81        COUNT(v.visit_id) AS count_no_trans
82 FROM Visits v
83 LEFT JOIN Transactions t ON v.visit_id = t.visit_id
84 WHERE t.visit_id IS NULL
85 GROUP BY v.customer_id;
86
87

```

customer_id	count_no_trans
30	1
96	1
54	2

Result 11 x

Output

#	Time	Action	Message	Duration / Fetch
29	20:57:23	CREATE TABLE Transactions ( transaction_id INT PRIMARY KEY, visit_id INT, amount ...	Error Code: 1050. Table 'Transactions' already exists	0.000 sec
30	20:57:44	INSERT INTO Transactions (transaction_id, visit_id, amount) VALUES (2, 5, 310), (3, 5, ...	Error Code: 1062. Duplicate entry '2' for key 'Transactions.PRIMARY'	0.000 sec
31	20:57:50	SELECT v.customer_id AS customer_id, COUNT(v.visit_id) AS count_no_trans FROM V...	3 row(s) returned	0.000 sec / 0.000 sec

### # Solution 4 #

File Edit View Query Database Server Tools Scripting Help

SQL File 1\*

117 (7, 900003, -4000, '2020-09-11');  
118  
119  
120 • SELECT u.name AS name,  
121 SUM(t.amount) AS balance  
122 FROM Users u  
123 JOIN Transactions1 t ON u.account = t.account  
124 GROUP BY u.name  
125 HAVING SUM(t.amount) > 10000;

Schema: assignment\_8

name	balance
Alice	11000

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 15 x Read Only Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
62	21:15:03	SELECT u.name AS name, SUM(t.amount) AS balance FROM Users u JOIN Transactions1 t ON u.account = t.account	Error Code: 1054. Unknown column 't.account' in 'on clause'	0.000 sec
63	21:15:13	SELECT u.name AS name, SUM(t.amount) AS balance FROM Users u JOIN Transactions1 t ON u.account = t.account	1 row(s) returned	0.016 sec / 0.000 sec
64	21:16:11	SELECT u.name AS name, SUM(t.amount) AS balance FROM Users u JOIN Transactions1 t ON u.account = t.account	1 row(s) returned	0.000 sec / 0.000 sec