

BUAN 6320

Database Foundation for Business Analytics

SUBMITTED BY

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ASSIGNMENT 3

#SOLUTION 1

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Navigation' pane shows the 'CHEMAS' database structure, including 'assignment_3' and 'point' tables. The 'point' table is selected, showing its columns: 'x' (INT PK) and 'y' (INT PK). The main pane shows the 'SQL File 1' window with the following query:

```
1
2 SELECT MIN(ABS(p1.x - p2.x )) AS shortesttest
3 FROM assignment_3.point p1,assignment_3.point p2
4 WHERE p1.x != p2.x ;
5
6
```

The 'Result Grid' pane shows the query results, with a single row containing the value '1' under the column 'shortesttest'. The 'Output' pane at the bottom shows the execution log, indicating that the query was executed successfully and returned 1 row(s).

Table: point
Columns:
x INT PK
y INT PK

Result Grid

shortesttest
1

Output

#	Time	Action	Message	Duration / Fetch
16	08:32:40	SELECT MIN(ABS(p1.x - p2.x)) AS shortesttest FROM assignment_3.point p1,p2 WHERE p1.x != p2.x ;	Error Code: 1046. No database selected Select the default DB to be used by double-clicking ...	0.000 sec
17	08:33:05	SELECT MIN(ABS(p1.x - p2.x)) AS shortesttest FROM assignment_3.point p1,p2 WHERE p1.x != p2.x ;	Error Code: 1046. No database selected Select the default DB to be used by double-clicking ...	0.015 sec
18	08:33:30	SELECT MIN(ABS(p1.x - p2.x)) AS shortesttest FROM assignment_3.point p1,assignment_3.point p2 WHERE p1.x != p2.x ;	1 row(s) returned	0.000 sec / 0.000 sec

#SOLUTION 2

SQL File 3* mynumbers

```

1 • INSERT INTO assignment_3.mynumbers (num)
2   VALUES (8),(8),(3),(3),(1),(4),(5),(6);
3 • SELECT num
4   FROM assignment_3.mynumbers
5   GROUP BY num having COUNT(num) =1
6   ORDER BY num DESC LIMIT 1
7
8

```

Result Grid

num
6

Table: mynumbers
Columns: num int

Output

#	Time	Action	Message	Duration / Fetch
47	09:03:03	SELECT num FROM mynumbers GROUP BY num having COUNT(num) =1 ORDER BY nu...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking ...	0.000 sec
48	09:03:09	SELECT num FROM mynumbers GROUP BY num having COUNT(num) =1 ORDER BY nu...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking ...	0.000 sec
49	09:03:42	SELECT num FROM assignment_3.mynumbers GROUP BY num having COUNT(num) =1 ...	1 row(s) returned	0.000 sec / 0.000 sec

SOLUTION 3

SQL File 4* *

```

19 • ALTER table Bonus
20   ADD FOREIGN KEY (empId)
21   REFERENCES Employee(empId);
22
23 • SELECT Employee.name, Bonus.bonus
24   FROM Employee LEFT JOIN Bonus ON Employee.empId = Bonus.empId
25   WHERE Bonus.bonus < 1000 OR Bonus.bonus IS NULL
26   ORDER BY bonus;

```

Result Grid

name	bonus
John	NULL
Brad	NULL
Dan	500

Schema: assignment_3

Output

#	Time	Action	Message	Duration / Fetch
97	05:18:48	SELECT Employee.name, Bonus.bonus FROM Employee LEFT JOIN Bonus ON Employee...	3 row(s) returned	0.000 sec / 0.000 sec
98	05:23:20	SELECT Employee.name, Bonus.bonus FROM Employee LEFT JOIN Bonus ON Employee...	3 row(s) returned	0.016 sec / 0.000 sec
99	07:07:18	SELECT Employee.name, Bonus.bonus FROM Employee LEFT JOIN Bonus ON Employee...	3 row(s) returned	0.000 sec / 0.000 sec

SOLUTION 4

Navigator

SQL File 1*

SQL Additions

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

Filter objects

assignment_3

Tables

- bonus
- company
- employee
- mynumbers
- orders
- point
- salesperson

Views

Stored Procedures

Functions

Administration Schemas

Information

Schema: assignment_3

```
10 FROM SalesPerson
11 WHERE name NOT IN
12     (SELECT DISTINCT SalesPerson.name
13      FROM SalesPerson, Orders, Company
14      WHERE Company.name = "RED"
15      AND SalesPerson.sales_id = Orders.sales_id
16      AND Orders.com_id = Company.com_id );
17
```

Result Grid

name
Amy
Mark
Alex

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	05:22:57	ALTER table Orders ADD FOREIGN KEY (com_id) REFERENCES Company(com_id)	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.078 sec
6	05:23:01	ALTER table Orders ADD FOREIGN KEY (sales_id) REFERENCES SalesPerson(sales_id)	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.062 sec
7	05:35:46	SELECT name FROM SalesPerson WHERE name NOT IN (SELECT DISTINCT Sales...	3 row(s) returned	0.016 sec / 0.000 sec

Object Info Session