

Assignment-6

BUAN 6320: Database Foundations for Business Analytics

Submitted BY: Abhishek Arya

(NET ID: axa220149)

SOLUTION 1

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows a tree view with 'assignment_6' expanded, containing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Administration' pane shows 'Schemas' with 'assignment_6' selected. The 'Query 1' window shows the following SQL query:

```
32 (11, 'Madelynn', 1);
33
34 select T1.student_id as id, T1.student_name as name
35 from
36 (select L.id as student_id, L.name as student_name, L.department_id, R.name as Dept_name
37 from students2 as L
38 left join departments as R
39 on L.department_id = R.id) as T1
40 where T1.Dept_name is null;
```

The 'Result Grid' shows the following data:

id	name
2	John
3	Steve
4	Jasmine
7	Dalana

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
4	18:19:07	insert into departments (id, name) values(1, "Electrical Engineering"), (7, "Computer Engineeri...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.032 sec
5	18:19:15	insert into students2 (id, name, department_id) values(23, 'Alice', 1), (1, 'Bob', 7), (5, 'Jennifer'...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
6	18:19:21	select T1.student_id as id, T1.student_name as name from (select L.id as student_id, L.nam...	4 row(s) returned	0.000 sec / 0.000 sec

SOLUTION 2

Navigator: SCHEMAS

Filter objects

assignment_6

Tables

Views

Stored Procedures

Functions

Administration Schemas

Information

Schema: assignment_6

Query 1

```

67 (90, 3));
68
69 select T2.unique_id as unique_id, T2.name as name
70 from
71 (select L.id as employee_id, L.name as name, R.unique_id as unique_id
72 from employees as L
73 left join EmployeeUNI as R
74 on L.id = R.id) as T2
75 order by name;

```

Result Grid

unique_id	name
90	Alice
7	Bob
11	Jonathan
11	Meir
90	Winston

Result 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	18:22:27	insert into employees (id, name) values(1, "Alice"), (7, "Bob"), (11, "Meir"), (90, "Winston"), (...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
10	18:22:33	insert into EmployeeUNI (id, unique_id) values(3, 1), (11, 2), (90, 3)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
11	18:22:39	select T2.unique_id as unique_id, T2.name as name from (select L.id as employee_id, L.na...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

SQLAdditions

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

SOLUTION 3

Navigator: SCHEMAS

Filter objects

assignment_6

Tables

Views

Stored Procedures

Functions

Administration Schemas

Information

Schema: assignment_6

Query 1

```

116 select R.product_name , L.sum as unit
117 from(
118 (
119 select product_id, sum(unit) as sum
120 from orders2
121 where month(order_date) = 2
122 group by product_id
123 having sum >= 100) as L
124 left join products as R

```

Result Grid

product_name	unit
Leetcode Solutions	130
Leetcode Kit	100

Result 4

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	18:37:07	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	2 row(s) returned	0.000 sec / 0.000 sec
5	18:37:52	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
6	18:38:00	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

SQLAdditions

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

Query 1

```

120 from orders2
121 where month(order_date) = 2
122 group by product_id
123 having sum >= 100 as L
124 left join products as R
125 on L.product_id = R.product_id
126
127
128 /* Problem 4 */

```

Schema: assignment_6

product_name	unit
Leetcode Solutions	130
Leetcode Kit	100

Output

#	Time	Action	Message	Duration / Fetch
4	18:37:07	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	2 row(s) returned	0.000 sec / 0.000 sec
5	18:37:52	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
6	18:38:00	select R.product_name , L.sum as unit from((select product_id, sum(unit) as sum from orders...	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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

SOLUTION 4

Query 1

```

171 select country_name ,
172 case
173 when avg(weather_state) <= 15 then "Cold"
174 when avg(weather_state) >= 25 then "Hot"
175 else "Warm"
176 end as weather_type
177 from(
178 select L.* , R.country_name
179 from weather as L

```

Schema: assignment_6

country_name	weather_type
USA	Cold
Australia	Cold
China	Warm
Peru	Hot
Morocco	Hot

Output

#	Time	Action	Message	Duration / Fetch
19	18:24:25	insert into Countries (country_id, country_name) values(2, "USA"), (3, "Australia"), (7, "Peru")...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
20	18:24:25	insert into weather (country_id, weather_state, day) values(2, 15, '2019-11-01'), (2, 12, '201...	17 row(s) affected Records: 17 Duplicates: 0 Warnings: 0	0.016 sec
21	18:24:25	select country_name , case when avg(weather_state) <= 15 then "Cold" when avg(weather...	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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

Navigation

SCHEMAS

Filter objects

assignment_6

- Tables
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Schema: assignment_6

Object Info Session

Query 1

end as weather_type

from(

select L.* , R.country_name

from weather as L

left join countries as R

on L.country_id = R.country_id) as T1

where month(day) = 11

group by country_name;

Result Grid

country_name	weather_type
USA	Cold
Australia	Cold
China	Warm
Peru	Hot
Morocco	Hot

Result 4

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	18:24:25	insert into Countries (country_id, country_name) values(2, "USA"), (3, "Australia"), (7,"Peru")...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
20	18:24:25	insert into weather (country_id, weather_state, day) values(2, 15, '2019-11-01'), (2, 12, '201...	17 row(s) affected Records: 17 Duplicates: 0 Warnings: 0	0.016 sec
21	18:24:25	select country_name , case when avg(weather_state) <= 15 then "Cold" when avg(weather...	5 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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

Query Completed