

BUAN 6320

Database Foundation for Business Analytics

SUBMITTED BY

ABHISHEK ARYA (NET ID: axa220149)

ASSIGNMENT 2

SOLUTION 1

The screenshot shows the SQL Developer interface with a query window titled 'SQL File 1'. The query is as follows:

```
12 (1,2,4),
13 (2,1,5),
14 (2,1,6);
15
16 select actor_id, director_id
17 from ActorDirector
18 GROUP by actor_id,director_id
19 having COUNT(director_id)>2 AND COUNT(actor_id)>2;
```

The 'Schemas' pane on the left shows the 'actor_director' schema. The 'Result Grid' shows one row with 'actor_id' 1 and 'director_id' 1. The 'Output' pane at the bottom shows the following messages:

#	Time	Action	Message	Duration / Fetch
148	08:00:50	create table ActorDirector(timestamp int not null primary key, actor_id int default null, director...	Error Code: 1050. Table 'actordirector' already exists	0.000 sec
149	08:00:55	insert into ActorDirector(actor_id, director_id , timestamp) values(1,1,0), (1,1,1), (1,1,2), (1,2,3...	Error Code: 1062. Duplicate entry '0' for key 'actordirector.PRIMARY'	0.016 sec
150	08:01:03	select actor_id, director_id from ActorDirector GROUP by actor_id,director_id having COUN...	1 row(s) returned	0.000 sec / 0.000 sec

Solution 2

Navigator: SQL File 1*

Filter objects

- actor_director
- enrollment
- orders
- sales_product

Administration Schemas

Information

Schema: enrollment

```

33 ('G','Math'),
34 ('H','Math'),
35 ('I','Math') ;
36
37 • select class
38   from Enrollment
39  group by class
40  having COUNT(class) >= 5;

```

Result Grid

class
Math

Enrollment 25

Output

Action Output

#	Time	Action	Message	Duration / Fetch
151	08:05:46	create table Enrollment(student varchar(50), class varchar(50), CONSTRAINT PK_Enrollme...	Error Code: 1050. Table 'enrollment' already exists	0.000 sec
152	08:05:52	insert into Enrollment(student, class) values('A', 'Math'), ('B','English'), ('C','Math'), ('D','Biology'...	Error Code: 1062. Duplicate entry 'A-Math' for key 'enrollment.PRIMARY'	0.000 sec
153	08:05:58	select class from Enrollment group by class having COUNT(class) >= 5	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

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: SQL File 1*

Filter objects

- actor_director
- enrollment
- orders
- sales_product

Administration Schemas

Information

Schema: orders

```

52 (4,3);
53
54 • select customer_number
55   from Orders
56  group by customer_number
57  order by COUNT(*) DESC
58  limit 1 ;
59

```

Result Grid

customer_number
3

Orders 26

Output

Action Output

#	Time	Action	Message	Duration / Fetch
154	08:07:20	create table Orders(order_number int not null primary key, customer_number int default null)	Error Code: 1050. Table 'orders' already exists	0.000 sec
155	08:07:25	insert into Orders(order_number, customer_number) values (1, 1), (2, 2), (3, 3), (4, 3)	Error Code: 1062. Duplicate entry '1' for key 'orders.PRIMARY'	0.000 sec
156	08:07:29	select customer_number from Orders group by customer_number order by COUNT(*) DESC li...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

SQLAdditions

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

Solution 4

SQL File 1*

84 (300, 'Samsung');
85
86 ALTER table Sales
87 ADD FOREIGN KEY (product_id)
88 REFERENCES Product(product_id);
89
90 SELECT product_name, year, price
91 FROM Sales INNER JOIN Product ON Sales.product_id = Product.product_id

Result Grid

Filter Rows: Export: Wrap Cell Content:

	product_name	year	price
▶	Nokia	2008	5000
	Nokia	2009	5000
	Apple	2011	9000

Schema: sales_product

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

Result 27 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
161	08:08:59	insert into Product(product_id, product_name) values(100, 'Nokia'), (200, 'Apple'), (300, 'S...	Error Code: 1062. Duplicate entry '100' for key 'product PRIMARY'	0.000 sec
162	08:09:08	ALTER table Sales ADD FOREIGN KEY (product_id) REFERENCES Product(product_id)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.078 sec
163	08:09:51	SELECT product_name, year, price FROM Sales INNER JOIN Product ON Sales.product_id...	3 row(s) returned	0.016 sec / 0.000 sec

Object Info Session