

Inserting data -

The screenshot shows MySQL Workbench with a query window containing the following SQL code:

```
12 INSERT INTO users (id, username, email, age, tech)
13 VALUES
14     (1, 'Vansh', 'vansh@gmail.com', 22, 'Angular'),
15     (2, 'Ankit', 'ankit@gmail.com', 25, 'React'),
16     (3, 'Disha', 'disha@gmail.com', 30, 'Vue'),
17     (4, 'Nitanshi', 'nitanshi@gmail.com', 28, 'Python');
18
19
20 • UPDATE users
21 SET age = 23
22 WHERE id = 1;
23
24 • Select * from users
```

The Result Grid shows the following data:

#	id	username	email	age	tech
1	1	Vansh	vansh@gmail.com	23	Angular
2	2	Ankit	ankit@gmail.com	25	React
3	3	Disha	disha@gmail.com	30	Vue
4	4	Nitanshi	nitanshi@gmail.com	28	Python

The Output window shows the following error:

#	Time	Action	Message	Duration / Fetch
20	15:02:03	INSERT INTO users (id, username, email, age, interest) VALUES (1, 'Vansh', 'vansh@gmail.com', 22, 'Angular')	Error Code: 1054. Unknown column 'interest' in field list	0.000 sec
21	15:02:22	CREATE database Emp use Emp create table users (id int auto_increment primary key, username varchar(25...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
22	15:02:28	INSERT INTO users (id, username, email, age, tech) VALUES (1, 'Vansh', 'vansh@gmail.com', 22, 'Angular')	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.000 sec
23	15:02:34	Select * from users LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
24	15:04:23	UPDATE users SET age = 23 WHERE id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
25	15:04:36	Select * from users LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Finding Maximum -

The screenshot shows MySQL Workbench with a query window containing the following SQL code:

```
18
19
20 • UPDATE users
21 SET age = 23
22 WHERE id = 1;
23
24 • DELETE FROM users
25 WHERE id = 4 ;
26
27 • SELECT MAX(age) AS max_age
28 FROM users;
29
30 • Select * from users
```

The Result Grid shows the following data:

#	max_age
1	30

The Output window shows the following error:

#	Time	Action	Message	Duration / Fetch
24	15:04:23	UPDATE users SET age = 23 WHERE id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
25	15:04:36	Select * from users LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
26	15:05:38	DELETE FROM users WHERE id = 4	1 row(s) affected	0.000 sec
27	15:05:44	Select * from users LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
28	15:07:11	CREATE database Emp use Emp create table users (id int auto_increment primary key, username varchar(25...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
29	15:07:34	SELECT MAX(age) AS max_age FROM users LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Finding Average

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
21 SET age = 23;
22 WHERE id = 1;
23
24 DELETE FROM users
25 WHERE id = 4;
26
27 SELECT MAX(age) AS max_age
28 FROM users;
29
30 SELECT AVG(age)
31 FROM users;
32
33 Select * from users
```

The result grid shows the output of the query:

AVG(age)
26.0000

The bottom panel shows the Action Output table:

#	Time	Action	Message	Duration / Fetch
25	15:04:36	Select * from users LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
26	15:05:38	DELETE FROM users WHERE id = 4	1 row(s) affected	0.000 sec
27	15:05:44	Select * from users LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
28	15:07:11	CREATE database Emp use Emp create table users(id int auto_increment primary key, username varchar(25...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
29	15:07:34	SELECT MAX(age) AS max_age FROM users LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
30	15:08:26	SELECT AVG(age) FROM users LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
29
30 SELECT AVG(age)
31 FROM users;
32
33 INSERT INTO users
34 VALUES (4, 'Jatin', 'jatin@gmail.com', 25, 'Angular');
35
36 SELECT tech, COUNT(*)
37 FROM users
38 GROUP BY tech;
39
40
41 Select * from users
```

The result grid shows the output of the query:

tech	user_count
Angular	2
React	1
Vue	1

The bottom panel shows the Action Output table:

#	Time	Action	Message	Duration / Fetch
36	15:14:05	Select * from users group by tech LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
37	15:14:41	Select username from users group by tech LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
38	15:15:01	CREATE database Emp use Emp create table users(id int auto_increment primary key, username varchar(25...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
39	15:15:33	Select username from users group by age having age > 25 LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
40	15:16:27	Select * from users LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
41	15:17:32	SELECT tech, COUNT(*) AS user_count FROM users GROUP BY tech LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Using Group By Clause -

MySQL Workbench

Mynewconnection x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

sakila
 sys
 world

Query 1 x

Limit to 1000 rows

```
32  
33 • INSERT INTO users  
34   VALUES (4, 'Jatin', 'jatin@gmail.com', 25, 'Angular');  
35  
36 • SELECT tech, COUNT(*)  
37   FROM users  
38   GROUP BY tech;  
39  
40  
41  
42  
43  
44 • Select * from users
```

Result Grid

tech	COUNT(*)
Angular	2
React	1
Vue	1

Administration Schemas

Information

No object selected

Object Info Session

Output

Action Output

#	Time	Action	Message	Duration / Fetch
42	15:18:35	SELECT tech, COUNT(*) FROM users GROUP BY tech where age > 25	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
43	15:19:08	SELECT tech, COUNT(*) FROM users WHERE age > 25 GROUP BY tech LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
44	15:19:24	SELECT tech, username, COUNT(*) FROM users WHERE age > 25 GROUP BY tech LIMIT 0, 1000	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.016 sec
45	15:20:26	SELECT tech, COUNT(*) FROM users WHERE age > 25 GROUP BY tech LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
46	15:21:03	SELECT tech, COUNT(*) FROM users GROUP BY tech having age > 25 LIMIT 0, 1000	Error Code: 1054. Unknown column 'age' in 'having clause'	0.000 sec
47	15:21:48	SELECT tech, COUNT(*) FROM users GROUP BY tech LIMIT 0, 1000	3 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.

Read Only Context Help Snippets

ENG IN 15:21 12-04-2024

Using Group by and having to give condition -

The screenshot displays the MySQL Workbench interface. The 'Query' tab is active, showing a SQL script with several queries. The 'Result Grid' shows the results of the last query, which is a SELECT statement with a HAVING clause. The 'Output' tab shows the execution log, including error messages for queries 44, 46, 47, 48, and 49.

SQL Script:

```
39
40
41 • SELECT tech, COUNT(*)
42   FROM users
43   GROUP BY tech;
44
45 • select MAX(age), tech
46   from users
47   group by tech
48   having MAX(age)>25;
49
50
51 • Select * from users
```

Result Grid:

MAX(age)	tech
30	Vue

Execution Log:

#	Time	Action	Message	Duration / Fetch
44	15:19:24	SELECT tech, username, COUNT(*) FROM users WHERE age > 25 GROUP BY tech LIMIT 0, 1000	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.016 sec
45	15:20:26	SELECT tech, COUNT(*) FROM users WHERE age > 25 GROUP BY tech LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
46	15:21:03	SELECT tech, COUNT(*) FROM users GROUP BY tech having age > 25 LIMIT 0, 1000	Error Code: 1054. Unknown column 'age' in 'having clause'	0.000 sec
47	15:21:48	SELECT tech, COUNT(*) FROM users GROUP BY tech LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
48	15:25:08	select age, tech from users group by tech having age>25 LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
49	15:25:37	select MAX(age), tech from users group by tech having MAX(age)>25 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Subquery -

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
44
45 select MAX(age), tech
46 from users
47 group by tech
48 having MAX(age)>25;
49
50 SELECT username
51 FROM users
52 WHERE age > (SELECT AVG(age) FROM users);
53
54
55
56 Select * from users
```

The result grid shows the output of the query:

username
Disha

The Action Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
46	15:21:03	SELECT tech, COUNT(*) FROM users GROUP BY tech having age > 25 LIMIT 0, 1000	Error Code: 1054. Unknown column 'age' in 'having clause'	0.000 sec
47	15:21:43	SELECT tech, COUNT(*) FROM users GROUP BY tech LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
48	15:25:08	select age, tech from users group by tech having age>25 LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
49	15:25:37	select MAX(age), tech from users group by tech having MAX(age)>25 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
50	15:28:04	Select username from users where age > (select AVG(age) from users)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
51	15:28:44	SELECT username FROM users WHERE age > (SELECT AVG(age) FROM users) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Order by -

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
48 having MAX(age)>25;
49
50 SELECT username
51 FROM users
52 WHERE age > (SELECT AVG(age) FROM users);
53
54 select username, age
55 from users
56 order by age;
57
58
59
60 Select * from users
```

The result grid shows the output of the query:

username	age
Vansh	23
Ankit	25
Jatin	25
Disha	30

The Action Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
47	15:21:43	SELECT tech, COUNT(*) FROM users GROUP BY tech LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
48	15:25:08	select age, tech from users group by tech having age>25 LIMIT 0, 1000	Error Code: 1055. Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated colu...	0.000 sec
49	15:25:37	select MAX(age), tech from users group by tech having MAX(age)>25 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
50	15:28:04	Select username from users where age > (select AVG(age) from users)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
51	15:28:44	SELECT username FROM users WHERE age > (SELECT AVG(age) FROM users) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
52	15:29:40	select username, age from users order by age LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec