

1.

MySQL Workbench interface showing a query execution. The query is as follows:

```

19 INSERT INTO VENDOR SELECT * FROM cs_owen.VENDOR WHERE V_AREACODE> 700;
20 SELECT * FROM VENDOR;
21 SELECT 700>77,'700'>'77','700'>77;
22 use cs_owen;
23 SELECT P_DESCRIPT FROM PRODUCT
24 WHERE DATEDIFF(CURRENT_DATE,P_INDATE)
25 BETWEEN (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;

```

The result grid shows the following data:

P_DESCRIPT
Power painter, 15 psi., 3-nozzle
7.25-in. pwr. saw blade
9.00-in. pwr. saw blade
B&D jigsaw, 12-in. blade
B&D jigsaw, 8-in. blade
Sledge hammer. 12 lb.

The Action Output pane shows the execution progress of the query.

2.

-I GET MORE GROUPS AND THE AVERAGE ARE CODES ARE EQUAL TO THE AREA CODES WHERE OUR VENDORS ARE FOUND

MySQL Workbench interface showing a query execution. The query is as follows:

```

21 SELECT 700>77,'700'>'77','700'>77;
22 use cs_owen;
23 SELECT P_DESCRIPT FROM PRODUCT
24 WHERE DATEDIFF(CURRENT_DATE,P_INDATE)
25 BETWEEN (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;
26 SELECT V_ORDER,AVG(V_AREACODE),GROUP_CONCAT(V_NAME) FROM VENDOR GROUP BY V_ORDER,V_AREACODE ;
27

```

The result grid shows the following data:

V_ORDER	AVG(V_AREACODE)	GROUP_CONCAT(V_NAME)
N	615	Gomez Bros.,Brackman Bros.,Damal Supplies
N	901	Dome Supply
N	904	SuperLoe, Inc.,B&K, Inc.
Y	615	Bryson, Inc.,D&E Supply,ORDVA, Inc.
Y	901	Randssets Ltd.
Y	904	Rubicon Systems

The Action Output pane shows the execution progress of the query.

3.

MySQL Workbench

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Query 1 x

```

21 • SELECT 700>77,'700'>'77','700'>77;
22 • use cs_owen;
23 • SELECT P_DESCRIPT FROM PRODUCT
24 • WHERE DATEDIFF(CURRENT_DATE,P_INDATE)
25 • BETWEEN (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;
26 • SELECT V_ORDER,AVG(V_AREACODE),GROUP_CONCAT(V_NAME) FROM VENDOR GROUP BY V_ORDER,V_AREACODE ;
27 • SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) FROM VENDOR JOIN PRODUCT ON PRODUCT.V_CODE=VENDOR.V_CODE WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2;

```

Result Grid

V_CODE	V_NAME	COUNT(*)
21225	Bryson, Inc.	2
21344	Gomez Bros.	3
23119	Randslets Ltd.	2
25595	Rubicon Systems	2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
38	19:23:15	SELECT VENDOR.V_CODE,VENDOR.V_NAME,P_MIN FROM VENDOR JOIN PRODUCT ON ...	Error Code: 1055. Expression #3 of SELECT list is not in GROUP BY clause and contains nonag...	0.016 sec
39	19:23:26	SELECT VENDOR.V_CODE,VENDOR.V_NAME,VENDOR.P_MIN FROM VENDOR JOIN PRO...	Error Code: 1054. Unknown column 'VENDOR.P_MIN' in field list	0.031 sec
40	19:23:38	SELECT VENDOR.V_CODE,VENDOR.V_NAME,PRODUCT.P_MIN FROM VENDOR JOIN PR...	Error Code: 1055. Expression #3 of SELECT list is not in GROUP BY clause and contains nonag...	0.031 sec
41	19:24:50	SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) FROM VENDOR JOIN PRODUCT ...	4 row(s) returned	0.016 sec / 0.000 sec
42	19:25:42	SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) AS 'CO' FROM VENDOR JOIN PRO...	4 row(s) returned	0.000 sec / 0.000 sec
43	19:25:51	SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) FROM VENDOR JOIN PRODUCT ...	4 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Windows Taskbar: Type here to search, 7:26 PM 3/4/2021

4.

MySQL Workbench

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Query 1 x

```

22 • use cs_owen;
23 • SELECT Execute the statement under the keyboard cursor
24 • WHERE DATEDIFF(CURRENT_DATE,P_INDATE)
25 • BETWEEN (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;
26 • SELECT V_ORDER,AVG(V_AREACODE),GROUP_CONCAT(V_NAME) FROM VENDOR GROUP BY V_ORDER,V_AREACODE ;
27 • SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) FROM VENDOR JOIN PRODUCT ON PRODUCT.V_CODE=VENDOR.V_CODE WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2;
28 • SELECT V_CODE,V_NAME FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM PRODUCT WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2 );

```

Result Grid

V_CODE	V_NAME
21225	Bryson, Inc.
21344	Gomez Bros.
23119	Randslets Ltd.
25595	Rubicon Systems

Output

Action Output

#	Time	Action	Message	Duration / Fetch
61	19:40:39	SELECT * FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM PRODUCT WHERE ...	4 row(s) returned	0.016 sec / 0.000 sec
62	19:48:07	SELECT V_CODE,V_NAME,COUNT(*) FROM VENDOR WHERE V_CODE IN (SELECT V_COD...	Error Code: 1140. In aggregated query without GROUP BY, expression #1 of SELECT list contain...	0.016 sec
63	19:48:38	SELECT V_CODE,V_NAME,COUNT(V_CODE) FROM VENDOR WHERE V_CODE IN (SELECT...	Error Code: 1140. In aggregated query without GROUP BY, expression #1 of SELECT list contain...	0.015 sec
64	19:48:54	SELECT V_CODE,V_NAME FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM P...	4 row(s) returned	0.015 sec / 0.000 sec
65	19:49:31	SELECT V_CODE,V_NAME,COUNT(*) FROM VENDOR WHERE V_CODE IN (SELECT V_COD...	Error Code: 1140. In aggregated query without GROUP BY, expression #1 of SELECT list contain...	0.015 sec
66	19:50:07	SELECT V_CODE,V_NAME FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM P...	4 row(s) returned	0.015 sec / 0.000 sec

Query Completed

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5.

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Administration Schemas

Query 1 x

Limit to 1000 rows

```

23 • SELECT P_DESCRPT FROM PRODUCT
24 • WHERE (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;
25 • BETWEEN (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)-60 AND (SELECT MAX(DATEDIFF(CURRENT_DATE,P_INDATE)) FROM PRODUCT)+60;
26 • SELECT V_ORDER,AVG(V_AREACODE),GROUP_CONCAT(V_NAME) FROM VENDOR GROUP BY V_ORDER,V_AREACODE ;
27 • SELECT VENDOR.V_CODE,VENDOR.V_NAME,COUNT(*) FROM VENDOR JOIN PRODUCT ON PRODUCT.V_CODE=VENDOR.V_CODE WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2;
28 • SELECT V_CODE,V_NAME FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM PRODUCT WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2 );
29 • SELECT V_CODE FROM PRODUCT WHERE EXISTS(SELECT V_CODE FROM PRODUCT WHERE P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2 ) AND P_QOH >=10 GROUP BY V_CODE HAVING COUNT(*)>=2

```

Result Grid

V_CODE
21225
21344
23119
25595

Output

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
74	20:02:33	SELECT V_CODE,V_NAME FROM PRODUCT WHERE EXISTS(SELECT V_CODE FROM PR...	Error Code: 1054. Unknown column 'V_NAME' in field list'	0.016 sec
75	20:03:04	SELECT V_CODE,V_NAME FROM VENDOR WHERE V_CODE IN (SELECT V_CODE FROM P...	4 row(s) returned	0.031 sec / 0.000 sec
76	20:03:10	SELECT V_CODE FROM PRODUCT WHERE EXISTS(SELECT V_CODE FROM PRODUCT W...	4 row(s) returned	0.031 sec / 0.000 sec
77	20:04:01	SELECT V_CODE,V_NAME FROM VENDOR WHERE EXISTS(SELECT V_CODE FROM PRO...	Error Code: 1054. Unknown column 'P_QOH' in 'where clause'	0.000 sec
78	20:04:19	SELECT V_CODE FROM PRODUCT WHERE EXISTS(SELECT V_CODE FROM PRODUCT W...	4 row(s) returned	0.016 sec / 0.000 sec
79	20:05:34	SELECT V_CODE FROM PRODUCT WHERE EXISTS(SELECT V_CODE FROM PRODUCT W...	4 row(s) returned	0.031 sec / 0.000 sec

Query Completed

Type here to search

8:05 PM 3/4/2021

6.

INTEGER ,NULL CAN BE YES, MULTIPLE OCCURENCES OF SAME VALUE ALLOWED

MySQL Workbench

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Administration Schemas

Query 1 x

Limit to 1000 rows

```

1 • USE cs_MMICO;
2 • SELECT *,P_MIN+1 FROM cs_owen.PRODUCT;
3 • CREATE TABLE mico AS SELECT *,P_MIN+1 FROM cs_owen.PRODUCT;
4 • DESCRIBE cs_owen.PRODUCT;
5 • DESCRIBE mico;

```

Result Grid

Field	Type	Null	Key	Default	Extra
P_CODE	varchar(10)	NO		NULL	
P_DESCRPT	varchar(35)	NO		NULL	
P_INDATE	datetime	NO		NULL	
P_QOH	int(11)	NO		NULL	
P_MIN	int(11)	NO		NULL	
P_PRICE	decimal(8,2)	NO		NULL	
P_DISCOUNT	decimal(4,2)	NO		NULL	
V_CODE	int(11)	YES		NULL	
P_MIN+1	hinh(12)	NO		0	

Output

No object selected

Action Output

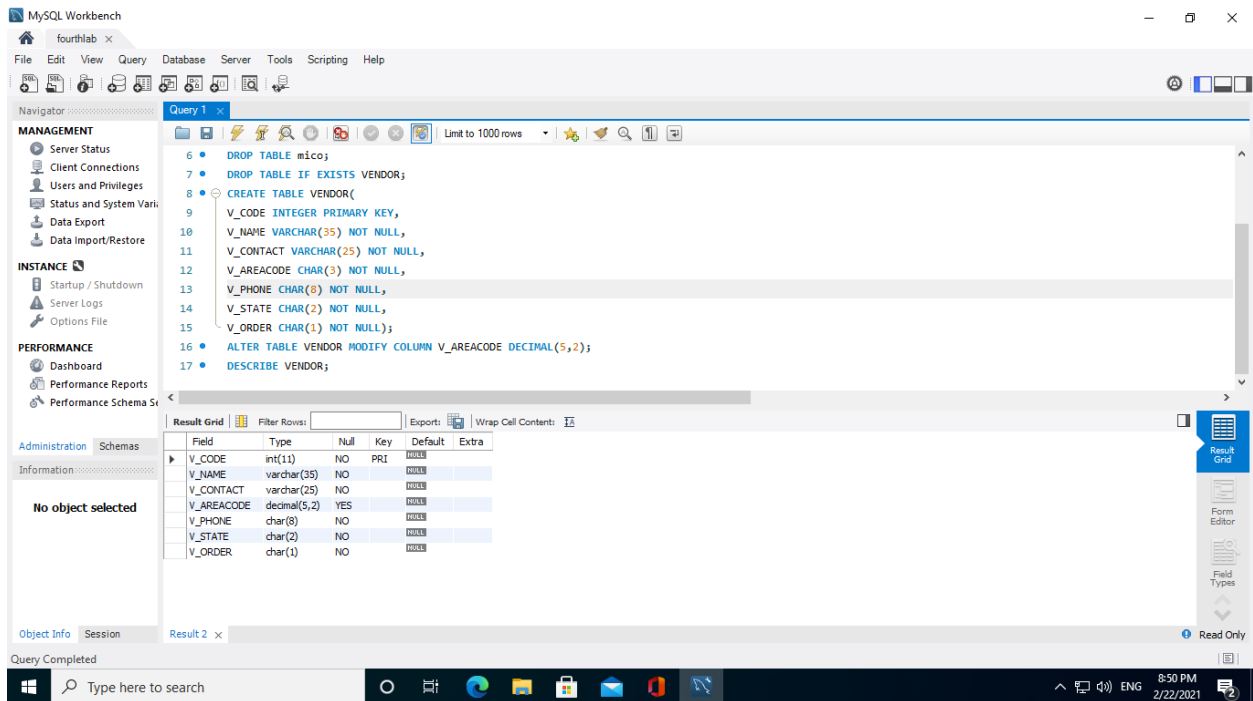
#	Time	Action	Message	Duration / Fetch
1	16:13:28	describe PRODUCT	Error Code: 1146. Table 'cs_MMICO.PRODUCT' doesn't exist	0.031 sec
2	16:15:08	SELECT * P_MIN+1 FROM cs_owen.PRODUCT LIMIT 0, 1000	16 row(s) returned	0.032 sec / 0.000 sec
3	16:17:45	CREATE TABLE mico AS SELECT *,P_MIN+1 FROM cs_owen.PRODUCT	16 row(s) affected Records: 16 Duplicates: 0 Warnings: 0	0.343 sec
4	16:19:10	DESCRIBE mico	9 row(s) returned	0.015 sec / 0.000 sec
5	16:19:34	DESCRIBE cs_owen.PRODUCT	8 row(s) returned	0.031 sec / 0.000 sec
6	16:19:55	DESCRIBE mico	9 row(s) returned	0.015 sec / 0.000 sec

Query Completed

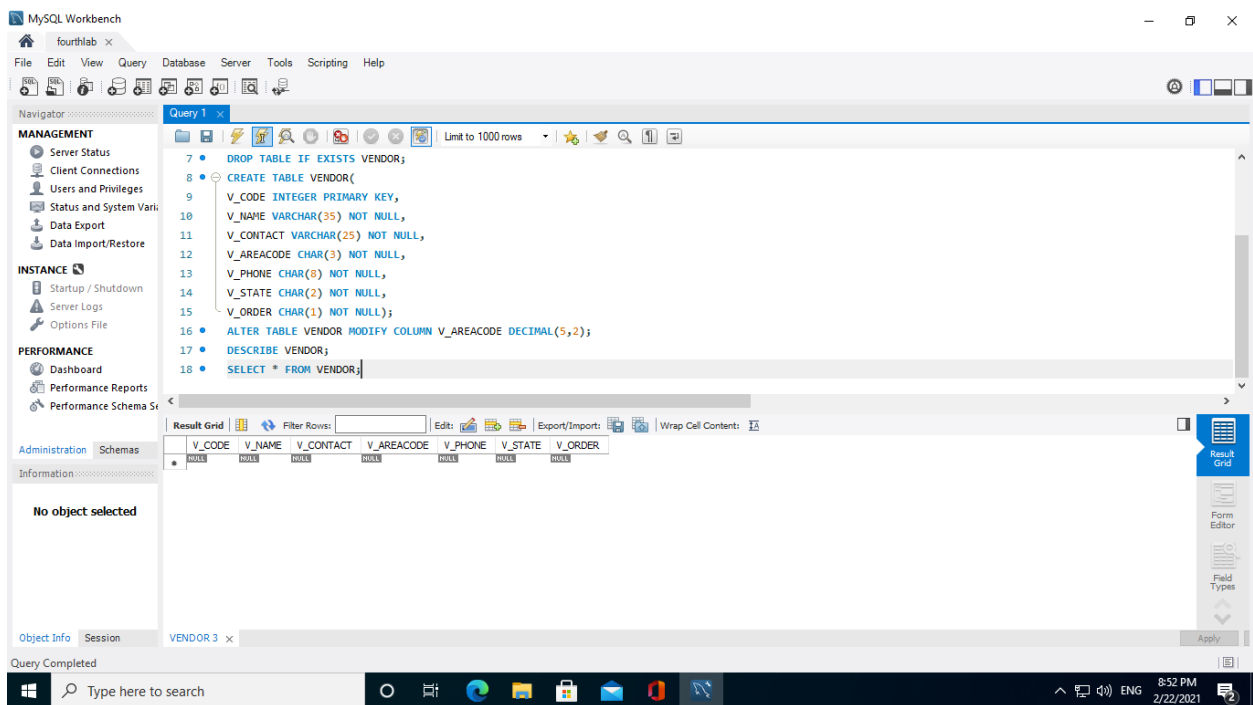
Type here to search

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7.

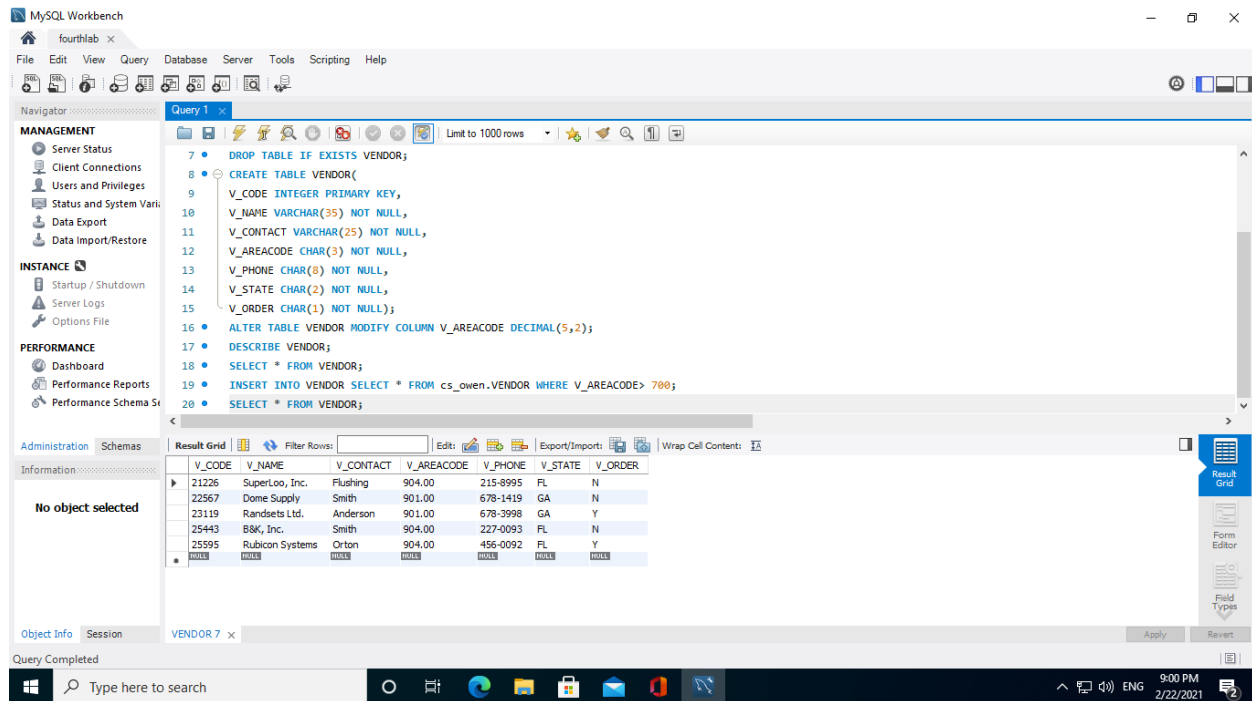


8.



9.

IT DOES NOT



10.

-INTEGER VALUES ARE COMPARED NORMALLY SHOWING 700 IS GREATER

-STRING VALUES ARE COMPARED IN THAT FORM AND SHOW THAT STRING 700 LESS THAN STRING 77

-IT APPEARS THAT THE STRING VALUE 700 IS CONVERTED TO INT THEN COMPARED TO THE INT 77 SHOWING 700 AS THE GREATER VALUE

MySQL Workbench

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Administration Schemas

Information

No object selected

Object Info Session

Query 1

```
14 V_STATE CHAR(2) NOT NULL,  
15 V_ORDER CHAR(1) NOT NULL);  
16 ALTER TABLE VENDOR MODIFY COLUMN V_AREACODE DECIMAL(5,2);  
17 DESCRIBE VENDOR;  
18 SELECT * FROM VENDOR;  
19 INSERT INTO VENDOR SELECT * FROM cs_owen.VENDOR WHERE V_AREACODE> 700;  
20 SELECT * FROM VENDOR;  
21 SELECT 700>77,'700'>'77','700'>77;
```

Result Grid

	700>77	'700'>'77'	'700'>77
1	0	1	

Export: Wrap Cell Contents

Action Output

#	Time	Action	Message	Duration / Fetch
21	20:59:07	ALTER TABLE VENDOR MODIFY COLUMN V_AREACODE DECIMAL(5,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.500 sec
22	20:59:14	INSERT INTO VENDOR SELECT * FROM cs_owen.VENDOR WHERE V_AREACODE> 700	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.094 sec
23	20:59:27	SELECT * FROM VENDOR LIMIT 0, 1000	5 row(s) returned	0.015 sec / 0.000 sec
24	21:00:49	SELECT * P_MIN+1 FROM cs_owen.PRODUCT LIMIT 0, 1000	16 row(s) returned	0.015 sec / 0.000 sec
25	21:00:55	DESCRIBE cs_owen.PRODUCT	8 row(s) returned	0.015 sec / 0.000 sec
26	21:06:16	SELECT 700>77,'700'>'77','700'>77 LIMIT 0, 1000	1 row(s) returned	0.031 sec / 0.000 sec

Query Completed

Type here to search

9:12 PM 2/22/2021