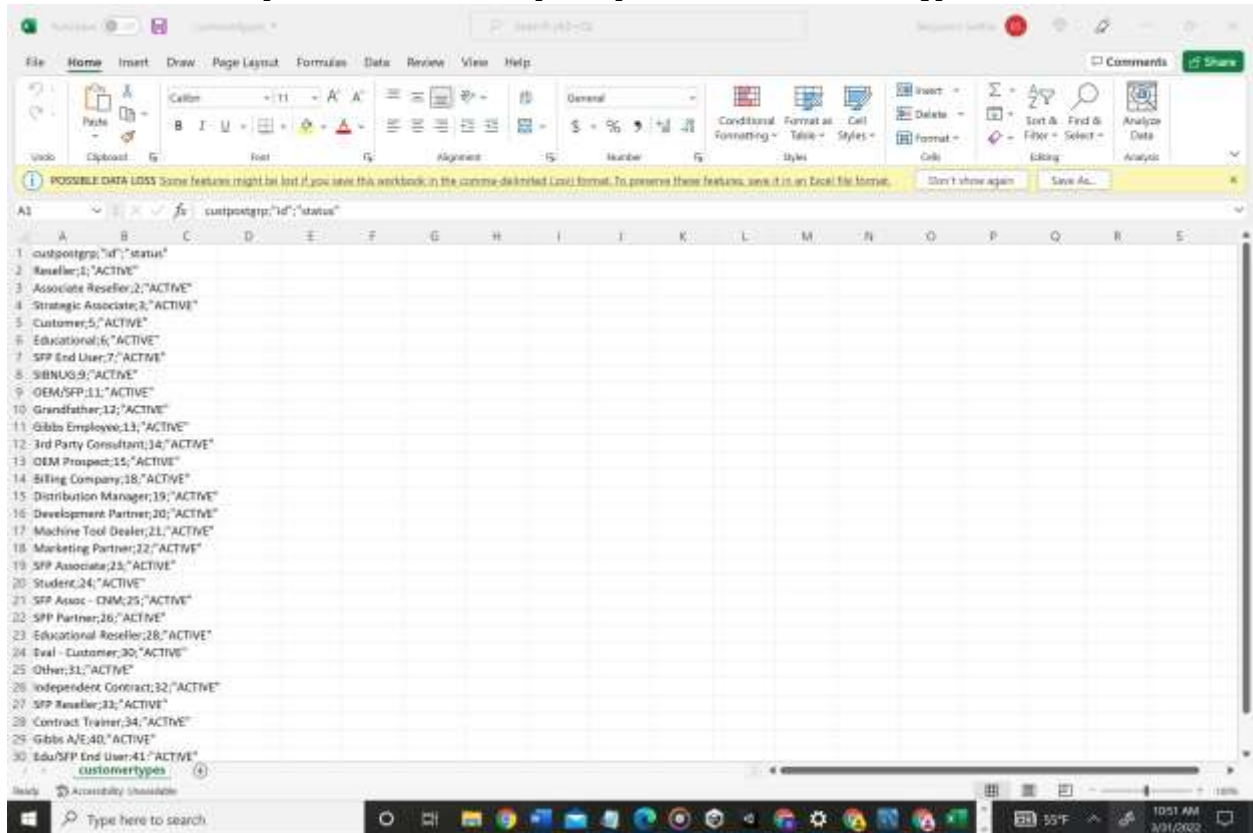
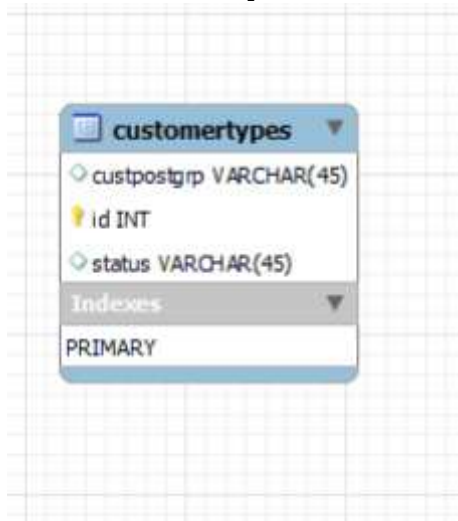


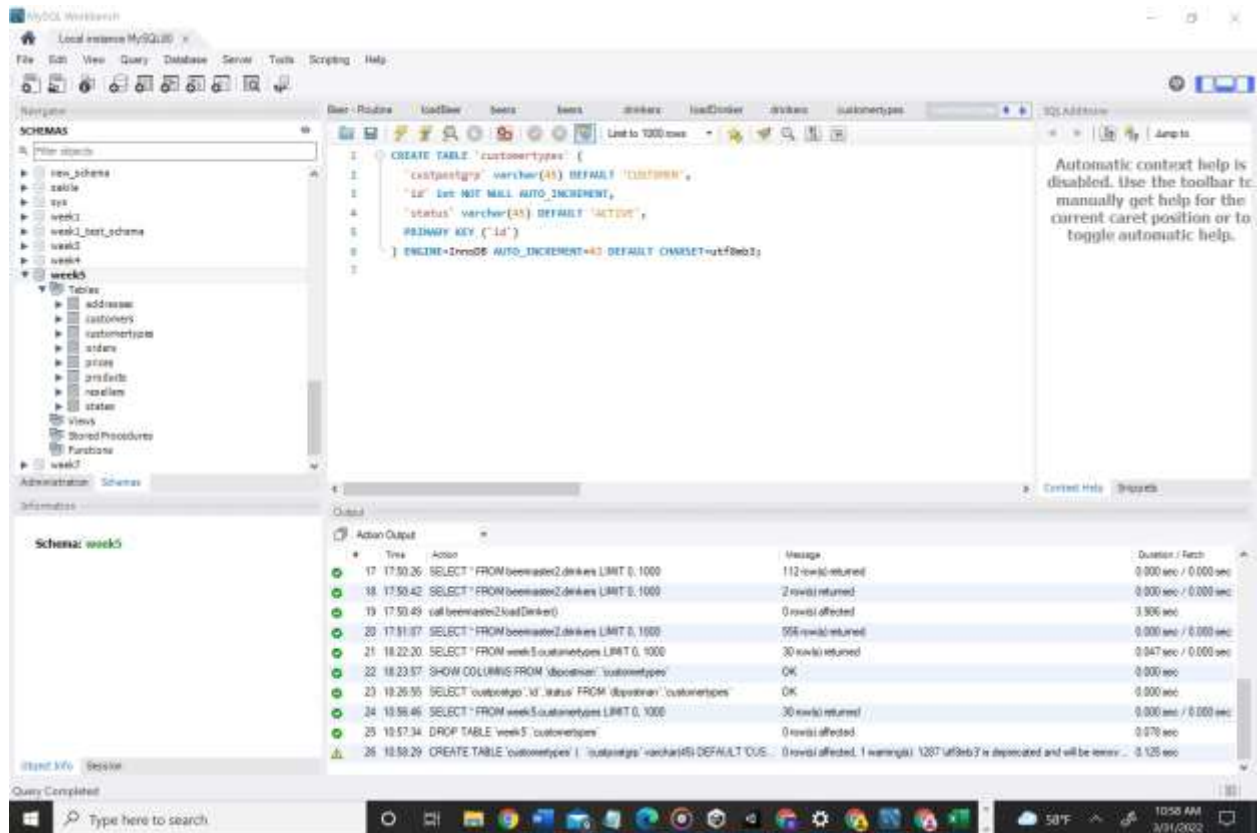
## Follow Along Week 5

Use workbench Export Wizard to export postmandb.customertypes to CSV



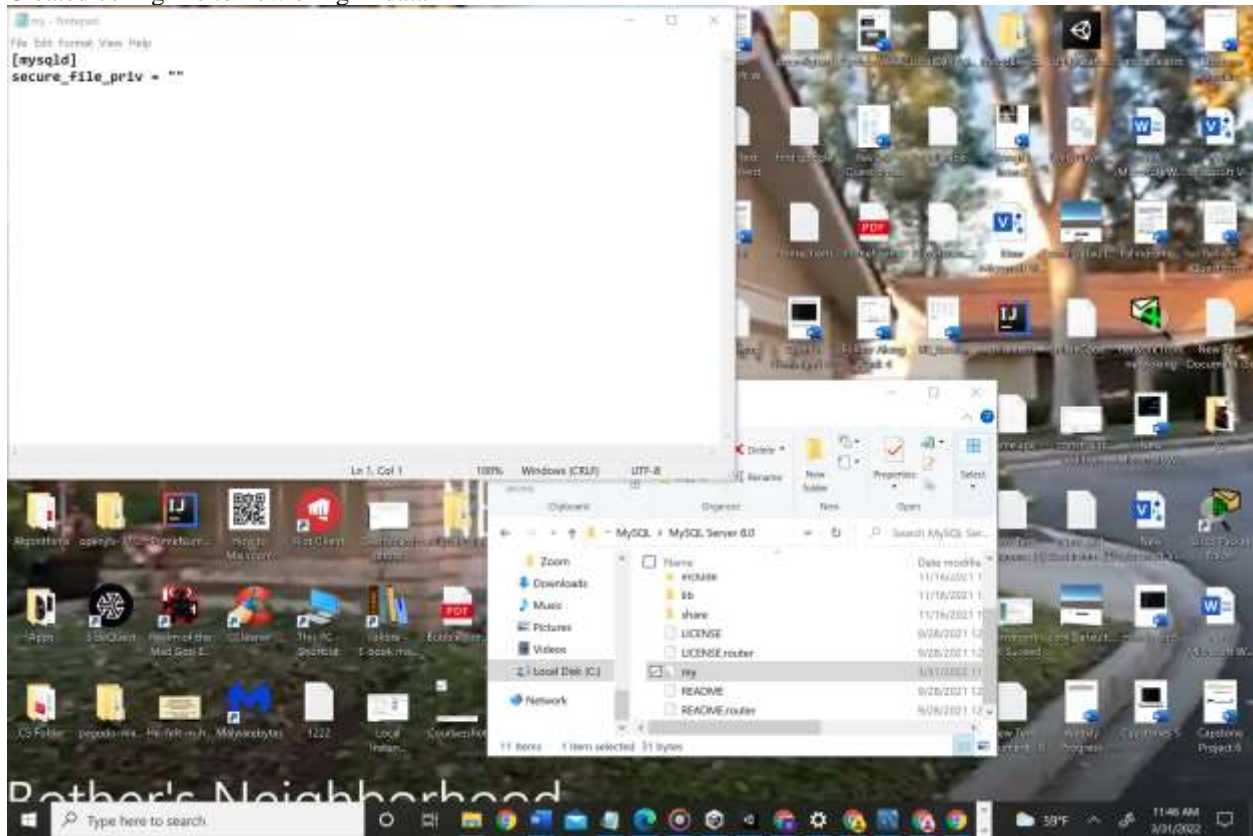
Grab DDL for dbpostman.customertypes to create week5.customertypes





Create a LOAD data SQL script to import the data into week4

Created config file to now bring in data



```
USE week5;
LOAD DATA INFILE 'C:\\temp\\customertypes.csv' INTO TABLE customertypes;
FIELDS TERMINATED BY ',' ENCLOSED BY '"'
LINES TERMINATED BY '\r\n'
IGNORE 1 LINES
(CUSTPOSTGRP, ID, STATUS);
```

NOTE files system notation

```
Select state, COUNT(state) from week5.addresses where country='US' group by
state
```

MySQL Workbench

Local instance MySQL

File Edit View Query Database Server Tools Scripting Help

Navigation

SCHEMAS

Filter schemas

Stored Procedures  
Database  
new\_schema  
mys  
week1  
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week3  
week4  
week5

Tables

addresses  
customers  
customer\_types  
orders  
products  
reviews  
states  
views  
Stored Procedures  
Functions

Administration Schemas

Information

Table: addresses

Columns:

customerid varchar(45)  
orderid varchar(120)  
city varchar(45)  
state varchar(45)  
zip varchar(45)  
country varchar(45)

Query:

```
SELECT state, COUNT(state) FROM week5.addresses WHERE country="US" GROUP BY state
```

Result Grid

state	COUNT(state)
CA	1838
PA	498
NJ	274
UT	255
WA	340
IL	438
HI	33
MD	137
GA	148
FL	261
TX	604
LA	163
NE	46
NC	321
MI	504
KS	102
WI	463
AZ	213
MO	114
MA	188
NY	311
OH	705
IN	208
CT	112
OR	126
KY	46
OK	125
VA	112
MS	42

Read Only Context Help Snippets

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

Select country, COUNT(country) from week5.addresses group by country;

MySQL Workbench

Local instance MySQL

File Edit View Query Database Server Tools Scripting Help

Navigation

SCHEMAS

Filter schemas

Stored Procedures  
Database  
new\_schema  
mys  
week1  
week1\_test\_schema  
week3  
week4  
week5

Tables

addresses  
customers  
customer\_types  
orders  
products  
reviews  
states  
views  
Stored Procedures  
Functions

Administration Schemas

Information

Table: addresses

Columns:

customerid varchar(45)  
orderid varchar(120)  
city varchar(45)  
state varchar(45)  
zip varchar(45)  
country varchar(45)

Query:

```
SELECT country, COUNT(country) FROM week5.addresses GROUP BY country;
```

Result Grid

country	COUNT(country)
US	11051
CA	3079
NZ	112
JP	1118
CH	468
DK	145
SE	474
BE	98
FR	452
GB	280
DE	360
IT	255
NO	221
ES	465
AU	228
HK	40
PT	205
CZ	339
Hungary	1
IL	24
SE	36
AR	60
ZA	33
SG	140
IE	8
OL	40
TR	33
MY	38
AT	22

Read Only Context Help Snippets

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

**NOTE History = orders in my week5**

```
Select c.name, c.customerid, a.state, SUM(h.extprice)
from week5.customers c, week5.addresses a, week5.orders h
where a.customerid=c.customerid
and c.customerid=h.customerid
and a.state='CA'
group by (h.customerid)
order by c.name asc;
```

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

```
1 from week5.customers c, week5.addresses a, week5.orders h
2
3 where a.customerid=c.customerid
4 and c.customerid=h.customerid
5 and a.state='CA'
6 group by (h.customerid)
7 order by c.name asc;
```

The Results grid displays the following data:

name	customerid	state	SUM(h.extprice)
A & D PRECISION MFG, INC.	15382	CA	9175.269999999999
AAA ENGINEERING	48387	CA	3795.2399999999998
ABACORP	56900	CA	30171.520000000002
ABAXIS, INC.	253221	CA	11457.919999999998
ACTRON MANUFACTURING	23338	CA	8288.75
ADVANCED TECHNOLOGY MACHINING	51297	CA	1355.75
ADVANCED TOOL DESIGN INC.	36461	CA	843.75
AERO ENGINEERING & MFG.	15396	CA	3383.5233333333333
AERO-MECHANICAL INC.	18491	CA	2568.75
AEROSPACE MILL PRODUCTS	549457	CA	3953.5200000000002
ALPHA MACHINE	16311	CA	746.44
ALTADIVA MANUFACTURING	6408	CA	79.42
ALTECH MACHINING	15439	CA	3825
ALZEBUR INCORPORATED	139964	CA	2312.5
AME MACHINING, INC.	56682	CA	4562.5
AMERICAN DRESSING COMPANY	33326	CA	5683.75
AMERICAN PROTOTYPE	17207	CA	4515.38
AMERICAN RUBBER MACHINE	48325	CA	790.43
AMT MACHINING CORPORATION	55454	CA	4751.13

The Action Output pane at the bottom shows the execution progress of the query, including the number of rows returned and the duration of each step.

```
Select c.name, c.customerid, a.state, AVG(h.extprice), MIN(h.extprice),
MAX(h.extprice)
from week5.customers c, week5.addresses a, week5.orders h
where a.customerid=c.customerid
and c.customerid=h.customerid
and a.state='CA'
group by (h.customerid) order by c.name asc;
```



MySQL Workbench

Local instance MySQL5

File Edit View Query Database Server Tools Scripting Help

Navigation: Schemas, Tables, Views, Stored Procedures, Functions

Schema: week5

Tables: addresses, customers, customerstype, orders, products, materials, states, views

Query:

```

1 Select c.name, c.customerid, a.state, AVG(h.extprice), MIN(h.extprice), MAX(h.extprice)
2 from week5.customers c, week5.addresses a, week5.orders h
3 where a.customerid=c.customerid
4 and c.customerid=h.customerid
5 and a.state='CA'
6 group by (h.customerid) order by c.name asc;

```

Result Grid:

name	customerid	state	AVG(h.extprice)	MIN(h.extprice)	MAX(h.extprice)
A & D PRECISION MFG, INC.	10382	CA	262.196283742857	2031.25	825
AAA ENGINEERING	48387	CA	326.03999999999999	112.5	62.5
ABACORP	56900	CA	436.85290000000006	0	53.75
ABAXIS, INC.	263221	CA	636.53111111111111	112.5	843.75
ACTRON MANUFACTURING	23108	CA	576.9754945494545	3208	5.59
ADVANCED TECHNOLOGY MACHINERY	94097	CA	276.75	2031.25	93.75
ADVANCED TOOL DESIGNS, INC.	36491	CA	843.75	843.75	843.75
AERO ENGINEERING & MFG.	15366	CA	436.0374034674034	0	96
AERO MECHANICAL ENG.	10491	CA	176.75	140.63	96
AEROSPACE MILL PRODUCTS	949457	CA	950.4457142857144	329	93.75
ALPHA MACHINE	16311	CA	149.68800000000002	112.5	62.5
ALPHAVIA MANUFACTURING	6408	CA	246.30434783208694	112.5	62.75
ALTECH MACHINERY	15419	CA	201.1257947308422	112.5	93.75
ALZEBER INCORPORATED	120984	CA	395.4566666666667	0	62.5
AME MACHINING, INC.	56682	CA	274.67063333333335	0	62.75
AMERICAN DRILLING COMPANY	53326	CA	406.99642857142858	2031.25	78.12
AMERICAN PROTOTYPE	17207	CA	236.63222222222223	171.88	96
AMERICAN RUBBER MACHINE	48125	CA	136.126	300	62.5
AMT AMT CORP	55454	CA	401.34777777777776	1031.75	306.75

Action Output:

Time	Action	Message	Duration / Fetch
25 17:15:42	SELECT * FROM week5.customers LIMIT 0, 1000	1000 rows(s) returned	0.016 sec / 0.031 sec
26 17:15:49	SELECT * FROM week5.customerstype LIMIT 0, 1000	30 rows(s) returned	0.016 sec / 0.000 sec
27 17:16:54	SELECT * FROM week5.orders LIMIT 0, 1000	1000 rows(s) returned	0.000 sec / 0.019 sec
28 17:18:25	Select c.name, c.customerid, a.state, AVG(h.extprice), MIN(h.extprice), MAX(h.extprice) from week5.customers c, week5.addresses a, week5.orders h where a.customerid=c.customerid and c.customerid=h.customerid and a.state='CA' group by (h.customerid) order by c.name asc;	318 rows(s) returned	1.782 sec / 0.000 sec
29 17:20:43	Select c.name, c.customerid, a.state, AVG(h.extprice), MIN(h.extprice), MAX(h.extprice) from week5.customers c, week5.addresses a, week5.orders h where a.customerid=c.customerid and c.customerid=h.customerid and a.state='CA' group by (h.customerid) order by c.name asc;	318 rows(s) returned	0.493 sec / 0.044 sec

Read Only Contact Help Shippers

60°F 5:00 PM 4/2/2012

Select AVG(h.extprice), MIN(h.extprice), MAX(h.extprice)  
from week5.addresses a, week5.orders h  
where a.customerid=h.customerid  
and a.state='CA'

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'week5' selected. The central editor contains a SQL query:

```

1  select AVG(h.extprice), MIN(h.extprice), MAX(h.extprice)
2  from week5.addresses a, week5.orders h
3  where a.customerid=h.customerid
4  and a.state='CA'
5

```

The 'Result Grid' shows the following data:

AVG(h.extprice)	MIN(h.extprice)	MAX(h.extprice)
256.5839423638045	0	990.64

The bottom 'Action Output' pane shows the execution log:

Time	Action	Message	Duration / Fetch
17:15:49	SELECT * FROM week5.customers LIMIT 0, 1000	30 row(s) returned	0.016 sec / 0.000 sec
17:16:04	SELECT * FROM week5.orders LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.015 sec
17:18:25	Select c.name, c.customerid, a.state, SUM(h.extprice) from week5.customers...	318 row(s) returned	1.792 sec / 0.000 sec
17:20:43	Select c.name, c.customerid, a.state, AVG(h.extprice), MIN(h.extprice), MAX(h...	318 row(s) returned	0.453 sec / 0.044 sec
17:21:46	Select AVG(h.extprice), MIN(h.extprice), MAX(h.extprice) from week5.address...	1 row(s) returned	0.234 sec / 0.000 sec

On the right side, a help message states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

```

USE `week5`;
CREATE OR REPLACE VIEW `combocustomer` AS
select c.name, a.street, a.city, a.state, a.zip, a.country from
week5.customers c, week5.addresses a where a.customerid=c.customerid;

```

MySQL Workbench

Local instance MySQL5.x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

week5

Tables

address

customers

customerstype

orders

products

states

views

Stored Procedures

Functions

combcustomer

Stored Procedures

Functions

week7

Information

View: combcustomer

Columns:

name varchar(100)

state varchar(100)

city varchar(45)

state varchar(45)

zip varchar(45)

country varchar(45)

Result Grid

SELECT \* FROM week5.combcustomer;

name	street	city	state	zip	country
GIBBS AND ASSOCIATES	323 Science Drive	Woodpark	CA	93003	US
FACE-TECH SERVICES, INC.	Harvest Business Plaza Suite 217	Harvest	PA	15674	US
MURTAGH CAD/CAM	3090 8 Street, PMB 126	Hayward	CA	94541	US
ELLIOTT MATSURA CANADA LTD.	2100 Buckingham Ave	Oakville	ONT	L6H5K2	CA
DESKTOP ENGINEERING SERVICES LTD.	8 Tape Pl.	Christchurch	NZ		
DAWOTECH	295 South Terrace	Booniken	NO	07005	US
DHG HOME NEW HEIST	7940 South 1630 West	West Jordan	UT	84068	US
MATSURA HATCHERY CORPORATION	4-261 Higashimanda	Fuku City, Fuku		810-0138	JP
MEDWEST CARP SOLUTIONS, INC.	8220 Sans Lake Road #380	New Hope	MI	49428	US
ROK INTERNATIONAL	801 Deer Field Plaza	Buffalo Grove	IL	60089	US
PRODUCTIC SA	Les Grands Champs 5	Rossmore		2840	CH
		White	IN	46176	US

Action Output

Time	Action	Message	Duration / Patch
16 17:15:47	SELECT * FROM department.position LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.046 sec
17 17:15:49	SELECT * FROM department.position LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.035 sec
18 17:15:50	SELECT * FROM department.position LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.015 sec
19 17:15:52	SELECT * FROM department.position LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.035 sec
20 17:16:11	SELECT * FROM department.customer LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.016 sec
21 17:16:23	SELECT * FROM week4.orders LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.000 sec
22 17:16:33	SELECT * FROM week4.products LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.000 sec
23 17:16:35	SELECT * FROM week4.products LIMIT 0, 1000	435 row(s) returned	0.016 sec / 0.000 sec
24 17:16:38	SELECT * FROM week4.orders LIMIT 0, 1000	50 row(s) returned	0.016 sec / 0.000 sec
25 17:16:42	SELECT * FROM week4.orders LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.015 sec

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

Select \* from week5.customers c inner join week5.orders h on c.Customerid = h.customerid order by c.name asc

MySQL Workbench

Local instance MySQL5.x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

week5

Tables

address

customers

customerstype

orders

products

states

views

Stored Procedures

Functions

combcustomer

Stored Procedures

Functions

week7

Information

View: combcustomer

Columns:

name varchar(100)

state varchar(100)

city varchar(45)

state varchar(45)

zip varchar(45)

country varchar(45)

Result Grid

SELECT \* FROM week5.customers c inner join week5.orders h on c.Customerid = h.customerid order by c.name asc;

id	customerid	name	searchname	address	address
1085	37214	1AMS WORKSHOP 4 WING COLD LAKE	1AMS WORKSHOP 4 WING COLD LAKE	P.O. Box 5550 Station Perce	
1085	37214	1AMS WORKSHOP 4 WING COLD LAKE	1AMS WORKSHOP 4 WING COLD LAKE	P.O. Box 5550 Station Perce	
2817	34999	1ST DETECT	1ST DETECT	555 Forge River Rd.	
2817	34999	1ST DETECT	1ST DETECT	555 Forge River Rd.	
31855	301623	2 PRAME SRL	2 PRAME SRL	Via Michelangelo 44	
31855	301623	2 PRAME SRL	2 PRAME SRL	Via Michelangelo 44	
31855	301623	2 PRAME SRL	2 PRAME SRL	Via Michelangelo 44	
31855	301623	2 PRAME SRL	2 PRAME SRL	Via Michelangelo 44	
31855	301623	2 PRAME SRL	2 PRAME SRL	Via Michelangelo 44	
4140	41391	2N INDUSTRIES	2N INDUSTRIES	8 Rue Joseph Cugnot	
4140	41391	2N INDUSTRIES	2N INDUSTRIES	8 Rue Joseph Cugnot	
4140	41391	2N INDUSTRIES	2N INDUSTRIES	8 Rue Joseph Cugnot	
4140	41391	2N INDUSTRIES	2N INDUSTRIES	8 Rue Joseph Cugnot	

Action Output

Time	Action	Message	Duration / Patch
26 17:16:49	SELECT * FROM week4.customerstype LIMIT 0, 1000	30 row(s) returned	0.016 sec / 0.000 sec
27 17:16:54	SELECT * FROM week4.orders LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.015 sec
28 17:18:25	Select c.name, c.customerid, a.state, S(M(h.address)) from week5.customers	318 row(s) returned	1.792 sec / 0.000 sec
29 17:20:42	Select c.name, c.customerid, a.state, A(G(h.address)), M(h.address), MAX(h.address)	318 row(s) returned	0.423 sec / 0.044 sec
30 17:21:46	Select A(G(h.address)), M(h.address), MAX(h.address) from week5.address	1 row(s) returned	0.234 sec / 0.000 sec
31 17:22:31	USE week5	0 row(s) affected	0.000 sec
32 17:22:31	CREATE OR REPLACE VIEW combcustomer AS select c.name, a.state	0 row(s) affected	0.031 sec
33 17:23:21	SELECT * FROM week5.combcustomer LIMIT 0, 1000	1000 row(s) returned	0.016 sec / 0.016 sec
34 17:24:19	Select * from week5.customers c inner join week5.orders h on c.Customerid =	1000 row(s) returned	1.006 sec / 1.483 sec

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



```
Select * from week5.customers a left join week5.orders b on
a.Customerid = b.customerid order by a.name asc
```

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query: `Select * from week5.customers a left join week5.orders b on a.Customerid = b.customerid order by a.name asc`. The query has been executed, and the results are displayed in a table with columns: `id`, `customerid`, `name`, `searchname`, and `address`. The results show a list of customers and their associated orders, ordered by customer name. The 'name' column contains truncated text, and the 'address' column also shows truncated information.

Below the results table, the 'Output' tab is active, showing the execution log. The log includes the following entries:

- 27: 17:16:54 SELECT \* FROM week5.orders LIMIT 0, 1000. 1000 row(s) returned. Duration: 0.000 sec / 0.015 sec.
- 28: 17:18:25 Select c.name, c.customerid, a.state, SUM(b.address) from week5 customers... 318 row(s) returned. 1.702 sec / 0.000 sec.
- 29: 17:20:43 Select c.name, c.customerid, a.state, AVG(b.address), MIN(b.address), MAX(b... 318 row(s) returned. 0.403 sec / 0.044 sec.
- 30: 17:21:46 Select AVG(b.address), MIN(b.address), MAX(b.address) from week5.address... 1 row(s) returned. 0.234 sec / 0.000 sec.
- 31: 17:22:51 USE week5. 0 row(s) affected. 0.000 sec.
- 32: 17:22:51 CREATE OR REPLACE VIEW 'combocustomer' AS select c.name, a.state... 0 row(s) affected. 0.031 sec.
- 33: 17:23:21 SELECT \* FROM week5.combocustomer LIMIT 0, 1000. 1000 row(s) returned. 0.015 sec / 0.015 sec.
- 34: 17:24:10 Select \* from week5 customers c inner join week5.orders b on c.Customerid =... 1000 row(s) returned. 0.036 sec / 1.483 sec.
- 35: 17:26:57 Select \* from week5 customers a left join week5.orders b on a.Customerid = b... 1000 row(s) returned. 1.020 sec / 1.516 sec.

```
Select * from week5.customers a left join week5.orders b on
a.Customerid = b.customerid where isnull(b.SellDate) order by a.name asc
```

MySQL Workbench

Local instance MySQL5.x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter schemas

week5

Tables

address

customers

customerstype

orders

products

states

views

Stored Procedures

Functions

Information

View: combocustomer

Columns:

name varchar(100)

state varchar(45)

city varchar(45)

zip varchar(45)

country varchar(45)

Query

Action Output

Time Action Message Duration / Refresh

28 17:18:25 Select c.name, c.customerid, a.state, SUM(h.address) from week5.customers ... 318 row(s) returned 1.780 sec / 0.000 sec

29 17:20:43 Select c.name, c.customerid, a.state, AVG(h.address), MIN(h.address), MAX(h ... 318 row(s) returned 0.453 sec / 0.044 sec

30 17:21:46 Select AVG(h.address), MIN(h.address), MAX(h.address) from week5.address ... 1 row(s) returned 0.234 sec / 0.000 sec

31 17:22:31 USE week5 0 row(s) affected 0.000 sec

32 17:22:31 CREATE OR REPLACE VIEW 'combocustomer' AS select c.name, a.state, ... 0 row(s) affected 0.031 sec

33 17:23:21 SELECT \* FROM week5.combocustomer LIMIT 0, 1000 1000 row(s) returned 0.015 sec / 0.016 sec

34 17:24:19 Select \* from week5.customers c inner join week5.orders h on c.Customerid = ... 1000 row(s) returned 1.030 sec / 1.483 sec

35 17:26:57 Select \* from week5.customers a left join week5.orders b on a.Customerid = b ... 1000 row(s) returned 1.020 sec / 1.515 sec

36 17:27:31 Select \* from week5.customers a left join week5.orders b on a.Customerid = b ... 1000 row(s) returned 0.620 sec / 1.485 sec

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

Select \* from week5.customers c right join week5.orders h on c.Customerid = h.customerid order by c.name asc

MySQL Workbench

Local instance MySQL5

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter schemas

week5

Tables

addresses

customers

customerstype

orders

products

states

views

Stored Procedures

Functions

Information

View: combocustomer

Columns:

name varchar(100)

state varchar(100)

city varchar(45)

state varchar(45)

zip varchar(45)

country varchar(45)

SQL Editor

Select \* from week5.customers c right join week5.orders b on c.Customerid = b.customerid order by C.name asc

Result Grid

id	customerid	name	state	city	state	country	postalcode	primarycontact	phone	fax
1	1000	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
2	1001	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
3	1002	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
4	1003	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
5	1004	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
6	1005	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
7	1006	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
8	1007	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
9	1008	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
10	1009	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
11	1010	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
12	1011	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
13	1012	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
14	1013	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
15	1014	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
16	1015	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
17	1016	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
18	1017	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
19	1018	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
20	1019	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
21	1020	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
22	1021	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
23	1022	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
24	1023	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
25	1024	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
26	1025	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
27	1026	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
28	1027	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
29	1028	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
30	1029	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
31	1030	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
32	1031	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
33	1032	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
34	1033	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
35	1034	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
36	1035	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
37	1036	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
38	1037	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
39	1038	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
40	1039	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
41	1040	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
42	1041	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
43	1042	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
44	1043	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
45	1044	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
46	1045	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
47	1046	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
48	1047	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
49	1048	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
50	1049	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
51	1050	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
52	1051	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
53	1052	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
54	1053	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
55	1054	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
56	1055	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
57	1056	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
58	1057	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
59	1058	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
60	1059	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
61	1060	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
62	1061	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
63	1062	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
64	1063	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
65	1064	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
66	1065	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
67	1066	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
68	1067	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
69	1068	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
70	1069	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
71	1070	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
72	1071	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
73	1072	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
74	1073	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
75	1074	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
76	1075	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
77	1076	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
78	1077	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
79	1078	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
80	1079	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
81	1080	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
82	1081	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
83	1082	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
84	1083	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
85	1084	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
86	1085	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
87	1086	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
88	1087	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
89	1088	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
90	1089	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
91	1090	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
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93	1092	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
94	1093	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
95	1094	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
96	1095	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
97	1096	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
98	1097	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
99	1098	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	
100	1099	AVON	MA	AVON	MA	MA	01901	508 555 1234	508 555 1234	

Action Output

Time	Action	Message	Duration / Refresh
29 17:20:43	Select c.name, c.customerid, a.state, AVON(a.state), MIN(a.state), MAX(a.state)	318 rows returned	0.453 sec / 0.044 sec
30 17:21:46	Select AVON(a.state), MIN(a.state), MAX(a.state) from week5.address	1 row(s) returned	0.234 sec / 0.000 sec
31 17:22:31	USE week5	0 row(s) affected	0.000 sec
32 17:22:31	CREATE OR REPLACE VIEW 'combocustomer' AS select c.name, a.state,	0 row(s) affected	0.031 sec
33 17:23:21	SELECT * FROM week5.combocustomer LIMIT 0, 1000	1000 row(s) returned	0.015 sec / 0.016 sec
34 17:24:19	Select * from week5.customers c inner join week5.orders b on c.Customerid = b...	1000 row(s) returned	1.056 sec / 1.483 sec
35 17:25:57	Select * from week5.customers a left join week5.orders b on a.Customerid = b...	1000 row(s) returned	1.009 sec / 1.516 sec
36 17:27:21	Select * from week5.customers a left join week5.orders b on a.Customerid = b...	1000 row(s) returned	0.625 sec / 1.483 sec
37 17:28:17	Select * from week5.customers c right join week5.orders b on c.Customerid = b...	1000 row(s) returned	1.375 sec / 1.375 sec

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

View: combocustomer

Columns:

name varchar(100)

state varchar(100)

city varchar(45)

state varchar(45)

zip varchar(45)

country varchar(45)

60°F 5:28 PM 4/2/2012

Select \* from week5.customers a right join week5.orders b on a.Customerid = b.customerid where isnnull(a.Name) order by a.name asc

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists the 'week5' database. The 'Query' pane in the center contains the following SQL query:

```
SELECT * FROM week5.customers a RIGHT JOIN week5.orders b ON
a.Customerid = b.customerid WHERE ISNULL(a.Name) ORDER BY a.Name ASC
```

The 'Results' pane on the right displays a table with 10 columns: Customerid, Name, Address, Address2, City, State, Country, Postcode, Primarycontact, Phone, and Fax. The table contains 10 rows of data.

The 'Action Output' pane at the bottom shows the execution plan for the query. The plan consists of several steps, including a 'SELECT' statement that returns 1000 rows. The execution time for the query is 0.000 sec / 0.000 sec.

At the bottom of the screen, the Windows taskbar is visible, showing the system clock as 5:28 PM on 4/2/2012.

Select \* from week5.customers c right outer join week5.orders h on  
c.Customerid = h.customerid  
UNION ALL  
Select \* from week5.customers a left outer join week5.orders b on  
a.Customerid = b.customerid

MySQL Workbench

Local instance MySQL5

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Information

View: combocustomer

Columns:

name varchar(100)

state varchar(45)

city varchar(45)

zip varchar(45)

country varchar(45)

Query

Result Grid

id	customerid	name	searchname	address	address2	city
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota
9	14	MIDWEST CAM SOLUTIONS, INC.	MIDWEST CAM SOLUTIONS, INC.	6220 Bass Lake Road #380		New Hope
171	14792	J HORST MFG. CO.	J HORST MFG. CO.	279 East Main Street		Dakota

Query

Action Output

Time	Action	Message	Duration / Refresh
31 17:22:51	USE week5	0 row(s) affected	0.000 sec
32 17:22:51	CREATE OR REPLACE VIEW 'combocustomer' AS select c.name, a.state...	0 row(s) affected	0.031 sec
33 17:23:21	SELECT * FROM week5.combocustomer LIMIT 0, 1000	1000 row(s) returned	0.015 sec / 0.016 sec
34 17:24:10	Select * from week5.customers c inner join week5.orders h on c.Customerid =	1000 row(s) returned	0.036 sec / 1.483 sec
35 17:25:57	Select * from week5.customers a left join week5.orders b on a.Customerid = b...	1000 row(s) returned	1.620 sec / 1.516 sec
36 17:27:31	Select * from week5.customers a left join week5.orders b on a.Customerid = b...	1000 row(s) returned	0.625 sec / 1.485 sec
37 17:28:17	Select * from week5.customers c right join week5.orders h on c.Customerid = h...	1000 row(s) returned	1.375 sec / 1.375 sec
38 17:28:48	Select * from week5.customers a right join week5.orders b on a.Customerid = b...	1000 row(s) returned	0.641 sec / 1.391 sec
39 17:29:30	Select * from week5.customers c right outer join week5.orders h on c.Custome...	225001 row(s) returned	0.250 sec / 7.109 sec

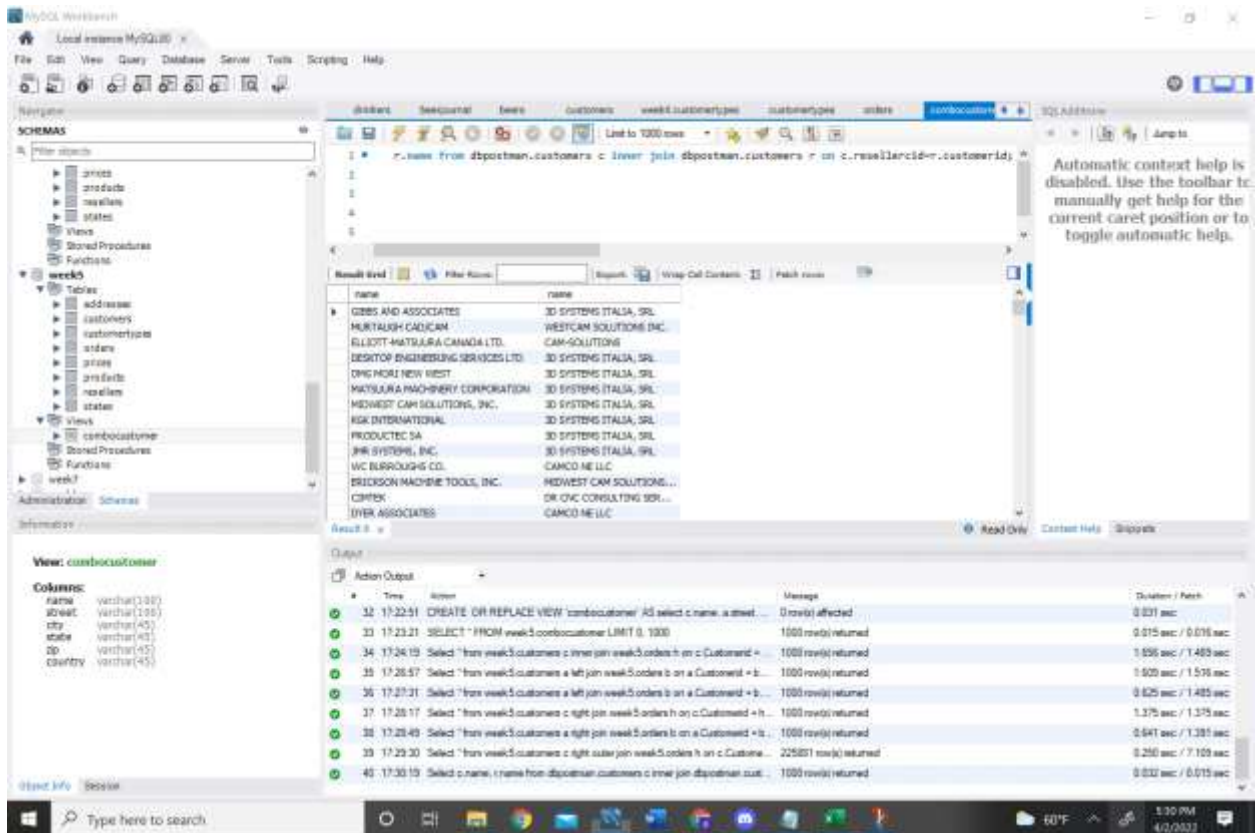
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Read Only Context Help Skipgrid

60°F 5:29 PM 4/2/2012

```
Select c.name, r.name from dbpostman.customers c inner join
dbpostman.customers r on c.resellerid=r.customerid;
```





SELECT h.customerid, (select c.name from week5.customers c where c.customerid=h.customerid) Customername,h.Selldate, h.Productid, h.Qty, h.Price, h.extprice from week5.orders h;

MySQL Workbench

Local instance MySQL56

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Administration Schemas

Information

View: combocustomer

Columns:

- name varchar(100)
- state varchar(45)
- city varchar(45)
- state varchar(45)
- zip varchar(45)
- country varchar(45)

Result Grid

customerid	Customername	Seldate	Productid	Qty	Price	extprice
38046	Boswell Inc.	4/14/2017 2:10:10 PM	LIC-VWR	4	200	8
38622	HAGSOL AG	4/11/2017 2:28:23 PM	MTR-LMD-SML-1	3	690	690
37963	HAGSOL GMBH	4/14/2017 3:18:54 PM	LIC-VW10SAX1	3	972.46	0
38622	HAGSOL AG	4/11/2017 2:28:23 PM	MTR-LMDSPAGTEP1	1	30	30
37963	HAGSOL GMBH	4/11/2017 3:18:54 PM	MTR-LMD50	2	47.48	47.48
38622	HAGSOL AG	4/11/2017 2:28:23 PM	MTR-LMD50	3	280	280
17277	Honeywell	4/20/2017 3:12:37 PM	LIC-VWR	3	300	8
38622	HAGSOL AG	4/11/2017 2:28:23 PM	MTR-LMD501	3	125	125
17296	PRECISION TOOL TECHNOLOGIES	4/17/2017 11:24:28 AM	LIC-VWRMTRP1	3	140	8
38622	HAGSOL AG	4/11/2017 2:28:23 PM	MTR-LMD50	3	60	60
33463	SANDORH A.S.	4/17/2017 11:18:27 AM	LIC-VWRMTRP1	3	188	8
46756	AK INDUSTRIES	4/11/2017 2:38:17 PM	MTR-LMD50	3	300	300
49206	HASCO EYBA	4/20/2017 2:18:25 PM	LIC-VWRMTR	3	240	8
46756	AK INDUSTRIES	4/11/2017 2:38:17 PM	MTR-LMD50	3	120	120

Read Only Context Help Skipgrid

Output

Action Output

Time	Action	Message	Duration / Pct
33 17:23:21	SELECT * FROM week5.combocustomer LIMIT 0, 1000	1000 row(s) returned	0.015 sec / 0.016 sec
34 17:24:10	Select * from week5.customers c inner join week5.orders h on c.Customerid = h...	1000 row(s) returned	1.656 sec / 1.400 sec
35 17:25:57	Select * from week5.customers c left join week5.orders h on c.Customerid = h...	1000 row(s) returned	1.629 sec / 1.516 sec
36 17:27:21	Select * from week5.customers c left join week5.orders h on c.Customerid = h...	1000 row(s) returned	0.625 sec / 1.400 sec
37 17:28:17	Select * from week5.customers c right join week5.orders h on c.Customerid = h...	1000 row(s) returned	1.375 sec / 1.375 sec
38 17:28:49	Select * from week5.customers c right join week5.orders h on c.Customerid = h...	1000 row(s) returned	0.641 sec / 0.391 sec
39 17:29:30	Select * from week5.customers c right outer join week5.orders h on c.Cust...	225831 row(s) returned	0.250 sec / 7.100 sec
40 17:30:10	Select c.name, r.name from dbpostman.customers c inner join dbpostman.cus...	1000 row(s) returned	0.032 sec / 0.015 sec
41 17:30:50	SELECT h.customerid, select c.name from week5.customers c where c.cust...	1000 row(s) returned	12.383 sec / 44.801 sec

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