

Make sure the MySQL server is running.


x



# Welcome to MySQL Workbench

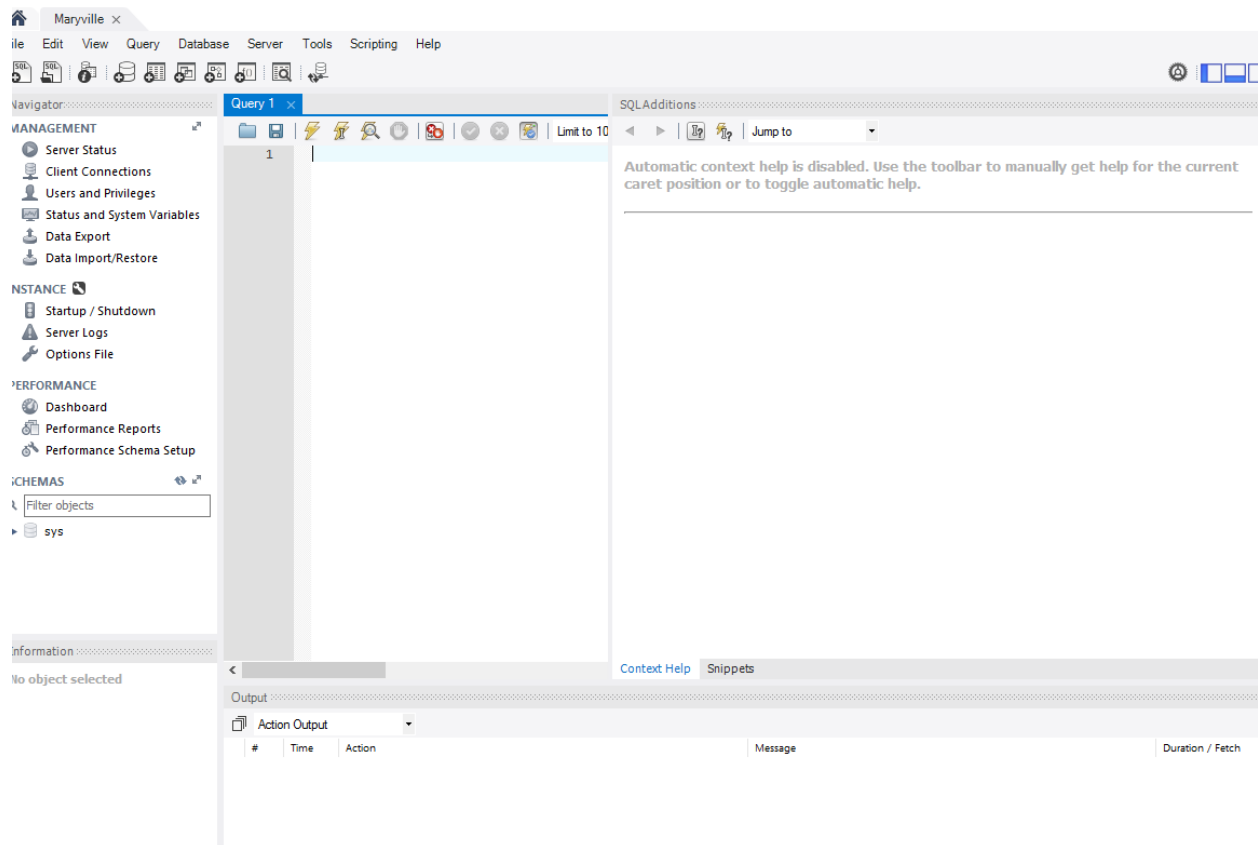
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

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MySQL Connections  

 Filter connections

Local instance MySQL57  root localhost:3306	Maryville  maryvilledb 127.0.0.1:3306
---	---



### Maryville Startup / Shutdown MySQL Server

The database server is started and ready for client connections. To shut the server down, use the "Stop Server" button

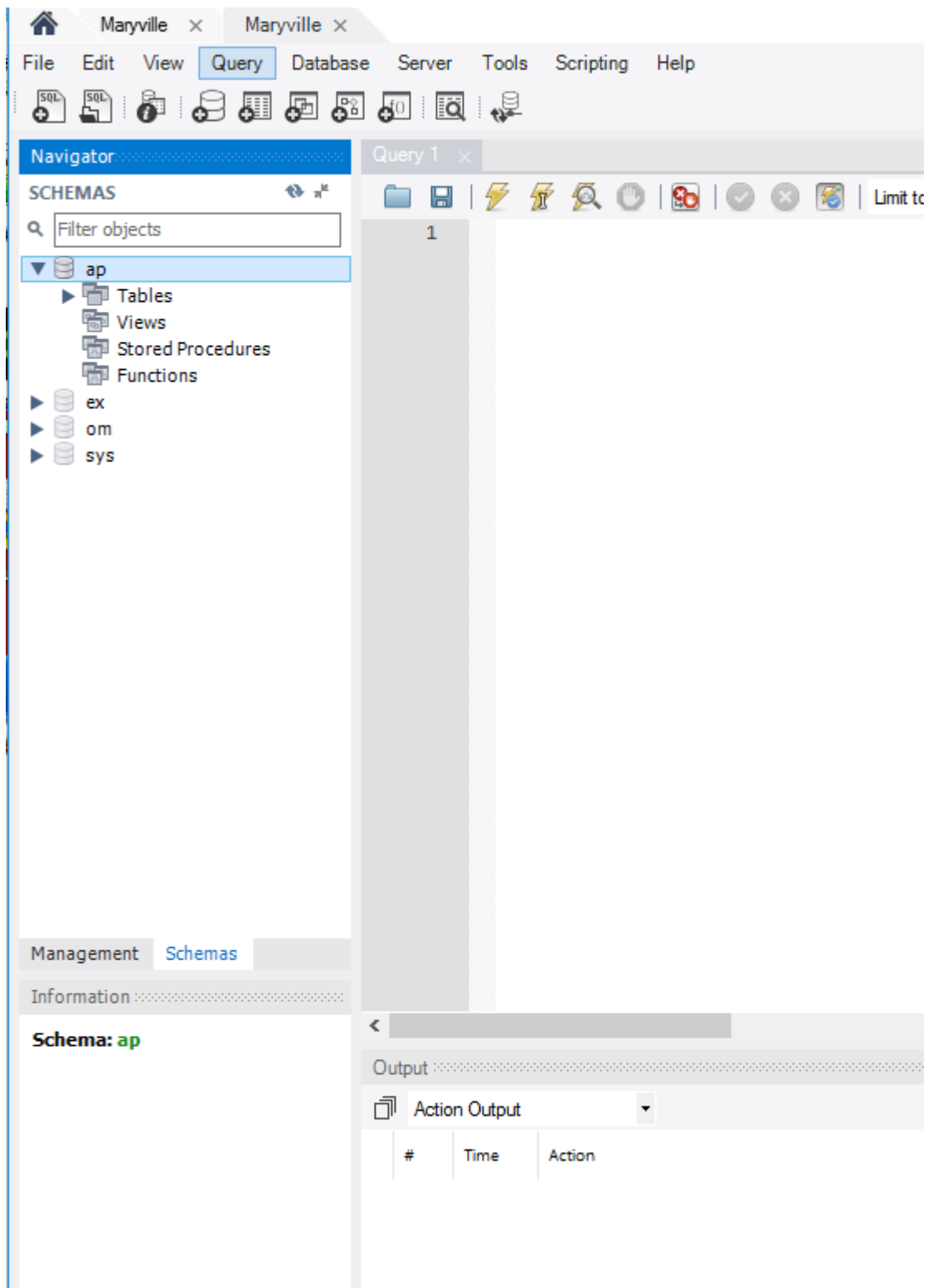
The database server instance is **running** Stop Server Bring Offline

If you stop the server, you and your applications will not be able to use the database and all current connections will be closed

#### Startup Message Log

```
2017-10-29 21:19:35 - Workbench will use cmd shell commands to start/stop this instance
2017-10-29 21:19:35 - Server is running
```

Use MySQL workbench to retrieve AP database



Navigator: SCHEMAS Filter objects

ap

- Tables
  - general\_ledger\_account
  - invoice\_archive
  - invoice\_line\_items
  - invoices
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- terms
- vendor\_contacts
- vendors
- Columns
- Indexes
- Foreign Keys
- Triggers

Views

- Stored Procedures
- Functions

ex

om

sys

Management Schemas

Information: Table: vendors

Columns:

- vendor\_id
- vendor\_name
- vendor\_address1
- vendor\_address2
- vendor\_city
- vendor\_state
- vendor\_zip\_code
- vendor\_phone
- vendor\_contact\_last\_name
- vendor\_contact\_first\_name
- vendor\_email\_address

Query 1 vendors

```
SELECT * FROM ap.vendors;
```

Result Grid

vendor_id	vendor_name	vendor_address1	vendor_address2	vendor_city
1	US Postal Service	Attn: Suot. Window Services	PO Box 7005	Madison
2	National Information Data Ctr	PO Box 96621		Washington
3	Register of Copyrights	Library Of Congress		Washington
4	Jobtrak	1990 Westwood Blvd Ste 260		Los Angeles
5	Newbriar Book Clubs	3000 Cindel Drive		Washington
6	California Chamber Of Commerce	3255 Ramos Cir		Sacramento
7	Towne Advertiser's Mallina Svcs	Kevin Minder	3441 W Macarthur Blvd	Santa Ana
8	BFI Industries	PO Box 9369		Fresno
9	Pacific Gas & Electric	Box 52001		San Francisco
10	Robbins Mobile Lock And Key	4669 N Fresno		Fresno
11	Bill Marvin Electric Inc	4583 E Home		Fresno
12	City Of Fresno	PO Box 2069		Fresno
13	Golden Eagle Insurance Co	PO Box 85826		San Diego
14	Exoedata Inc	4420 N. First Street, Suite 108		Fresno
15	ASC Signs	1528 N Sierra Vista		Fresno

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec

Navigator: SCHEMAS Filter objects

ap

- Tables
  - general\_ledger\_account
  - invoice\_archive
  - invoice\_line\_items
  - invoices
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- terms
- vendor\_contacts
- vendors
- Columns
- Indexes
- Foreign Keys
- Triggers

Views

- Stored Procedures
- Functions

ex

om

sys

Management Schemas

Information: Table: invoices

Query 1 invoices

```
SELECT * FROM ap.invoices;
```

Result Grid

invoice_id	vendor_id	invoice_number	invoice_date	invoice_total	payment_total	credit_total	terms_id	inv
1	122	989319-457	2014-04-08	3813.33	3813.33	0.00	3	2014
2	123	263253241	2014-04-10	40.20	40.20	0.00	3	2014
3	123	963253234	2014-04-13	138.75	138.75	0.00	3	2014
4	123	2-000-2993	2014-04-16	144.70	144.70	0.00	3	2014
5	123	963253251	2014-04-16	15.50	15.50	0.00	3	2014
6	123	963253261	2014-04-16	42.75	42.75	0.00	3	2014
7	123	963253237	2014-04-21	172.50	172.50	0.00	3	2014
8	89	125520-1	2014-04-24	95.00	95.00	0.00	1	2014
9	121	977488	2014-04-24	601.95	601.95	0.00	3	2014
10	123	263253250	2014-04-24	42.67	42.67	0.00	3	2014
11	123	963253262	2014-04-25	42.50	42.50	0.00	3	2014
12	96	177271-001	2014-04-26	662.00	662.00	0.00	2	2014
13	95	111-92R-10096	2014-04-30	16.33	16.33	0.00	2	2014
14	115	25022117	2014-05-01	6.00	6.00	0.00	4	2014
15	48	P02-88D7757	2014-05-03	856.92	856.92	0.00	3	2014
16	97	71-4748353	2014-05-03	8.95	8.95	0.00	3	2014

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with the 'ap' schema selected, containing tables like 'general\_ledger\_account', 'invoice\_archive', 'invoice\_line\_items', and 'invoices'. The main window shows the 'invoices' table structure with columns: invoice\_id (INT(11), PK, NN), vendor\_id (INT(11), NN), invoice\_number (VARCHAR(50), NN), invoice\_date (DATE, NN), invoice\_total (DECIMAL(9,2), NN), payment\_total (DECIMAL(9,2), NN), and credit\_total (DECIMAL(9,2), NN). The 'Columns' tab is active, showing the table's metadata. The 'Output' pane at the bottom shows two queries executed: a SELECT \* FROM ap.vendors LIMIT 0, 1000 (122 row(s) returned) and a SELECT \* FROM ap.invoices LIMIT 0, 1000 (114 row(s) returned).

MySQL Workbench interface showing the 'invoices' table structure and query results.

**Table: invoices**

Column Name	Datatype	PK	NN	UQ	B	LN	ZF	AI	G	Default/Expression
invoice_id	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vendor_id	INT(11)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
invoice_number	VARCHAR(50)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
invoice_date	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
invoice_total	DECIMAL(9,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
payment_total	DECIMAL(9,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	'0.00'
credit_total	DECIMAL(9,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	'0.00'

**Columns** | **Indexes** | **Foreign Keys** | **Triggers** | **Partitioning** | **Options**

**Output**

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS Filter objects

ap Tables general\_ledger\_account invoice\_archive invoice\_line\_items invoices Columns Indexes Foreign Keys Triggers terms vendor\_contacts vendors Columns Indexes Foreign Keys Triggers Views Stored Procedures Functions ex om sys

Management Schemas

Information Table: vendors Columns: vendor\_id vendor\_name vendor\_address1 vendor\_address2 vendor\_city vendor\_state vendor\_zip\_code vendor\_phone vendor\_contact\_last\_name vendor\_contact\_first\_name default\_vendor\_id

Query 1 vendors invoices invoices - Table vendors - Table

Table Name: vendors Schema: ap Collation: utf8 - default collation Engine: InnoDB Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
vendor_id	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vendor_name	VARCHAR(50)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
vendor_address1	VARCHAR(50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
vendor_address2	VARCHAR(50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
vendor_city	VARCHAR(50)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
vendor_state	CHAR(2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
vendor_zip_code	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column Name: Data Type: Collation: Default: Storage: ☐ Virtual ☐ Stored ☐ Primary Key ☐ Not Null ☐ Unique ☐ Binary ☐ Unsigned ☐ Zero Fill ☐ Auto Increment ☐ Generated

Columns Indexes Foreign Keys Triggers Partitioning Options

Apply Revert Context Help Snippets

Output: Action Output

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec

Use MySQL workbench to enter and run SQL statements

Navigator: SCHEMAS Filter objects

ap Tables general\_ledger\_account invoice\_archive invoice\_line\_items invoices Columns Indexes Foreign Keys Triggers terms vendor\_contacts vendors Columns Indexes Foreign Keys Triggers Views Stored Procedures Functions ex om sys

Management Schemas

Information

Query 1 vendors

1 • SELECT \* FROM ap.vendors;

Limit to 1000 rows

Result Grid

vendor_id	vendor_name	vendor_address1	vendor_address2	vendor_city
1	US Postal Service	Attn: Supt. Window Services	PO Box 7005	Madison
2	National Information Data Ctr	PO Box 96621	NULL	Washington
3	Register of Copyrights	Library Of Congress	NULL	Washington
4	Jobtrak	1990 Westwood Blvd Ste 260	NULL	Los Angeles
5	Newbriar Book Clubs	3000 Cindel Drive	NULL	Washington
6	California Chamber Of Commerce	3255 Ramos Cir	NULL	Sacramento
7	Towne Advertiser's Mailing Svcs	Kevin Minder	3441 W Macarthur Blvd	Santa Ana
8	BFI Industries	PO Box 9369	NULL	Fresno
9	Pacific Gas & Electric	Box 52001	NULL	San Francisco
10	Robbins Mobile Lock And Key	4669 N Fresno	NULL	Fresno
11	Bill Marvin Electric Inc	4583 E Home	NULL	Fresno
12	City Of Fresno	PO Box 2069	NULL	Fresno
13	Golden Eagle Insurance Co	PO Box 85826	NULL	San Diego
14	Expedata Inc	4420 N. First Street, Suite 108	NULL	Fresno
15	ASC Sions	1528 N Sierra Vista	NULL	Fresno
16	Internal Revenue Service	NULL	NULL	Fresno

Navigator: SCHEMAS Filter objects

ap

- Tables
  - general\_ledger\_account
  - invoice\_archive
  - invoice\_line\_items
  - Invoices
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - terms
  - vendor\_contacts
  - vendors
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Views
  - Stored Procedures
  - Functions
- ex
- om
- sys

Management Schemas

Information

Schema: ap

Query 1 SQL File 3\* x

```
SELECT vendor_name FROM vendors
```

Result Grid

vendor_name
Abbey Office Furnishings
American Booksellers Assoc
American Express
ASC Sions
Ascom Hasler Mailing Systems
AT&T
Aztek Label
Baker & Taylor Books
Bertelsmann Industr Svcs. Inc
BFT Industries
Bill Jones
Bill Marvin Electric Inc
Blanchard & Johnson Associates
Blue Cross
Blue Shield of California
Boucher Communications Inc
Cahners Publishing Company

Output

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec
3	22:11:20	SELECT vendor_name FROM vendors LIMIT 0, 1000	122 row(s) returned	0.031 sec / 0.000 sec

Schema: ap

Output

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec
3	22:11:20	SELECT vendor_name FROM vendors LIMIT 0, 1000	122 row(s) returned	0.031 sec / 0.000 sec
4	22:12:40	SELECT vendor_nam FROM vendors LIMIT 0, 1000	Error Code: 1054: Unknown column 'vendor_nam' in field list	0.188 sec

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS Filter objects

ap

- Tables
  - general\_ledger\_account
  - invoice\_archive
  - invoice\_line\_items
  - Invoices
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - terms
  - vendor\_contacts
  - vendors
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Views
  - Stored Procedures
  - Functions
- ex
- om
- sys

Management Schemas

Information

Schema: ap

Query 1 SQL File 3\* x SQL File 4\*

```
1 select count() As number_of_invoices
2 SUM (invoice_total) As grand_invoice_total
3 from invoices
```

Output

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap.vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec
3	22:11:20	SELECT vendor_name FROM vendors LIMIT 0, 1000	122 row(s) returned	0.031 sec / 0.000 sec
4	22:12:40	SELECT vendor_nam FROM vendors LIMIT 0, 1000	Error Code: 1054: Unknown column 'vendor_nam' in field list	0.188 sec
5	22:18:16	select count() As number_of_invoices SUM (invoice_total) As grand_invoice_total from invoices	Error Code: 1064: You have an error in your SQL syntax; check the manual that corresponds to your MySQL serv...	0.000 sec

## Use MySQL workbench to open and run scripts

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with 'ap' selected. The main editor window shows a SQL script with the following queries:

```
1 select count(*) As number_of_invoices
2 SUM (invoice_total) As grand_invoice_total
3 from invoices;
```

The 'Output' window at the bottom shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	22:00:17	SELECT * FROM ap vendors LIMIT 0, 1000	122 row(s) returned	0.047 sec / 0.000 sec
2	22:01:40	SELECT * FROM ap invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec
3	22:11:20	SELECT vendor_name FROM vendors LIMIT 0, 1000	122 row(s) returned	0.031 sec / 0.000 sec
4	22:12:40	SELECT vendor_name FROM vendors LIMIT 0, 1000	Error Code: 1054. Unknown column 'vendor_name' in field list	0.188 sec
5	22:18:16	select count(*) As number_of_invoices SUM (invoice_total) As grand_invoice_total from invoices	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL serv...	0.000 sec

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with 'ap' selected. The main editor window shows a SQL script with the following queries:

```
1 SELECT COUNT(*) AS number_of_invoices,
2 SUM(invoice_total - payment_total - credit_total) AS total_due
3 FROM invoices
4 WHERE invoice_total - payment_total - credit_total > 0;
```



The screenshot displays a SQL IDE interface. The top pane shows a query editor with the following SQL code:

```
1 SELECT vendor_name, vendor_city
2 FROM vendors
3 WHERE vendor_id = 34;
4
5 SELECT COUNT(*) AS number_of_invoices,
6 SUM(invoice_total - payment_total - credit_total) AS total_due
7 FROM invoices
8 WHERE vendor_id = 34;
```

The middle pane shows the 'Result Grid' with the following data:

number_of_invoices	total_due
2	0.00

The bottom pane shows the 'Output' window with the following log entries:

#	Time	Action	Message	Duration / Fetch
2	22:01:40	SELECT * FROM ap.invoices LIMIT 0, 1000	114 row(s) returned	0.000 sec / 0.000 sec
3	22:11:20	SELECT vendor_name FROM vendors LIMIT 0, 1000	122 row(s) returned	0.031 sec / 0.000 sec
4	22:12:40	SELECT vendor_name FROM vendors LIMIT 0, 1000	Error Code: 1054. Unknown column 'vendor_name' in field list	0.188 sec
5	22:18:16	select count() As number_of_invoices SUM (invoice_total) As grand_invoice_total from invoices	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
6	22:51:46	SELECT vendor_name, vendor_city FROM vendors WHERE vendor_id = 34 LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
7	22:51:46	SELECT COUNT(*) AS number_of_invoices, SUM(invoice_total - payment_total - credit_total) AS total_due ...	1 row(s) returned	0.063 sec / 0.000 sec