

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Books 51 x

Output

Action Output

| #   | Time     | Action   | Message            | Duration / Fetch      |
|-----|----------|--|--------------------|-----------------------|
| 160 | 15:27:47 | select * from Books order by Author ASC limit 10           | 10 row(s) returned | 0.000 sec / 0.000 sec |
| 161 | 15:28:36 | select * from Books where Genre like "Fantasy" LIMIT 0,400 | 4 row(s) returned  | 0.000 sec / 0.000 sec |

Object Info Session

31°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

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No object selected

Books 49 x

Output

Action Output

| #   | Time     | Action   | Message            | Duration / Fetch      |
|-----|----------|--|--------------------|-----------------------|
| 158 | 15:24:03 | select * from Books where Available_copies>3 limit 7 | 7 row(s) returned  | 0.000 sec / 0.000 sec |
| 159 | 15:26:34 | select * from Books order by Author ASC limit 10     | 10 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

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

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No object selected

Books 48 x

Output

Action Output

| Book_id | Title             | author       | Genre     | Published_Year | Available_Copies |
|---------|-------------------|--------------|-----------|----------------|------------------|
| 1       | Harry potter      | J K Rowling  | Fiction   | 1960           | 4                |
| 2       | Lords of Rings    | Tolkien      | Dystopian | 1949           | 5                |
| 3       | Wuthering Heights | Emily        | Fantasy   | 1851           | 7                |
| 6       | The African Queen | C S Forester | Adventure | 1988           | 5                |
| 8       | Beowulf           | Unknown      | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous       | Dystopian | 1869           | 7                |
| 10      | Vanity Fair       | william      | Fantasy   | 1997           | 4                |

Result Grid | Filter Rows: | Export: | Wrap Cell Contents: | Fetch rows: |

184 -- 11  
185 -- 12  
188 • select published\_year AS Year\_published from Books;  
189 • select Title, Author, published\_year from Books;  
110  
111 -- 15  
112 • select \* from Books limit 5;  
113  
114 -- 16  
115 • select \* from Books order by Published\_Year DESC limit 3;  
116  
117 -- 17  
118 • select \* from Books where Available\_copies>3 limit 7;

SQL Task 2 x

Find Done SQLAdditions

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

Result Grid | Form Editor

Read Only Context Help Snippets

Object Info Session

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Books 47 x

Output

Action Output

| Book_id | Title       | author         | Genre    | Published_Year | Available_Copies |
|---------|-------------|----------------|----------|----------------|------------------|
| 7       | Animal farm | George Tolstoy | Fiction  | 2005           | 3                |
| 7       | Animal farm | George Tolstoy | Fiction  | 2005           | 3                |
| 4       | Jane Eyre   | Charlotte      | Thriller | 2003           | 2                |

Result Grid | Filter Rows: | Export: | Wrap Cell Contents: | Fetch rows: |

184 -- 11  
185 -- 12  
188 • select published\_year AS Year\_published from Books;  
189 • select Title, Author, published\_year from Books;  
110  
111 -- 15  
112 • select \* from Books limit 5;  
113  
114 -- 16  
115 • select \* from Books order by Published\_Year DESC limit 3;

SQL Task 2 x

Find Done SQLAdditions

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Result Grid | Form Editor

Read Only Context Help Snippets

Object Info Session

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**MySQL Workbench**

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

**Books 45**

Output

Action Output

| Book_id | Title             | author       | Genre     | Published_Year | Available_Copies |
|---------|-------------------|--------------|-----------|----------------|------------------|
| 1       | Harry Potter      | J.K. Rowling | Fiction   | 1960           | 4                |
| 2       | Lords of Rings    | Tolkien      | Dystopian | 1949           | 5                |
| 3       | Wuthering Heights | Emily        | Fantasy   | 1851           | 7                |
| 4       | Jane Eyre         | Charlotte    | Thriller  | 2003           | 2                |
| 5       | Rebecca War       | Daphne       | Adventure | 1937           | 1                |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

SQL Task 1 SQL Task 2

Limit to 400 rows

Find: Done

SQLAdditions

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Result Grid Form Editor

Read Only Context Help Snippets

Object Info Session

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MySQL Workbench

Local instance MySQL80

**Navigator**

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- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

**Books 18**

Output

Action Output

| Available_copies |
|------------------|
| 5                |
| 7                |
| 5                |
| 6                |
| 7                |
| 5                |
| 7                |
| 5                |
| 4                |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

SQL Task 1 SQL Task 2

Limit to 1000 rows

Find: Done

SQLAdditions

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

Result Grid Form Editor

Read Only Context Help Snippets

Object Info Session

Air: Severe Tomorrow

MySQL Workbench

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Navigator

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Administration Schemas Information

books 19 X

Result Grid | Filter Rows | Export | Wrap Cell Content:

| Title             | author         | number_of_available_copies |
|-------------------|----------------|----------------------------|
| Harry potter      | J K Rowling    | 4                          |
| Lords of Ring     | Tolkien        | 5                          |
| Wuthering Heights | Emily          | 7                          |
| Jane Eye          | Charlotte      | 2                          |
| Rebecca war       | Daphne         | 1                          |
| The African Queen | C S Forester   | 5                          |
| Animal farm       | George Tolstoy | 3                          |
| Beowulf           | Unknown        | 6                          |
| New Wind          | Alirene        | 7                          |

SQL Task 1 \* SQL Task 2 \*

Limit to 1000 rows

SQLAdditions

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

Result Grid | Filter Rows | Export | Wrap Cell Content:

Output

Action Output

| #  | Time     | Action  | Message            | Duration / Fetch      |
|----|----------|---|--------------------|-----------------------|
| 42 | 11:35:13 | select Available_copies from Books where Available_copies>4 LIMIT 0, 1000                     | 10 row(s) returned | 0.000 sec / 0.015 sec |
| 43 | 11:41:21 | select Title, author, Available_copies as number_of_available_copies from books LIMIT 0, 1000 | 20 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

32°C Mostly cloudy

ENG IN 11:41 08-05-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

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**INSTANCE**

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Administration Schemas Information

Books 15 X

Result Grid | Filter Rows | Export | Wrap Cell Content:

| Title             | author         | year_published |
|-------------------|----------------|----------------|
| Harry potter      | J K Rowling    | 1960           |
| Lords of Ring     | Tolkien        | 1949           |
| Wuthering Heights | Emily          | 1851           |
| Jane Eye          | Charlotte      | 2003           |
| Rebecca war       | Daphne         | 1937           |
| The African Queen | C S Forester   | 1947           |
| Animal farm       | George Tolstoy | 2005           |
| Beowulf           | Unknown        | 1813           |
| New Wind          | Alirene        | 1889           |

SQL Task 1 \* SQL Task 2 \*

Limit to 400 rows

SQLAdditions

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

Result Grid | Filter Rows | Export | Wrap Cell Content:

Output

Action Output

| #  | Time     | Action  | Message            | Duration / Fetch      |
|----|----------|---|--------------------|-----------------------|
| 29 | 11:02:51 | select Title, author and published_year as year_published from Books LIMIT 0, 400 | 20 row(s) returned | 0.000 sec / 0.000 sec |
| 30 | 11:05:04 | select Title, author, published_year as year_published from Books LIMIT 0, 400    | 20 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

31°C Mostly cloudy

ENG IN 11:05 08-05-2025

**MySQL Workbench**

Local instance MySQL80

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Administration Schemas

Information

No object selected

Books 11 x

Output

Action Output

| Book_Id | Title             | author  | Genre     | Published_Year | Available_copies |
|---------|-------------------|---------|-----------|----------------|------------------|
| 3       | Wuthering Heights | Emily   | Fantasy   | 1851           | 7                |
| 8       | Beowulf           | Unknown | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous  | Dystopian | 1869           | 7                |
| 3       | Wuthering Heights | Emily   | Fantasy   | 1851           | 7                |
| 8       | Beowulf           | Unknown | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous  | Dystopian | 1869           | 7                |

Result Grid | Filter Rows: Export: Wrap Cell Content: Done

SQL Task 1 \* SQL Task 2 \*

Limit to 400 rows

SQLAdditions

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

Books 38 x

Output

Action Output

| Book_Title        | Copies |
|-------------------|--------|
| Harry potter      | 4      |
| Lords of Rings    | 5      |
| Wuthering Heights | 7      |
| Jane Eye          | 2      |
| Rebecca war       | 1      |
| The African Queen | 5      |
| Animal farm       | 3      |
| Bonefire          | 6      |
| New Wind-H        | 7      |

Result Grid | Filter Rows: Export: Wrap Cell Content: Done

SQL Task 1 \* SQL Task 2 \*

Find: Done

96 -- viii  
97 \* select \* from Books where Title like "%war";  
98  
99 -- ix  
100 \* select \* from Books where Author like "%Tolstoy";  
101  
102 -- x  
103 \* select Title AS Book\_Title, Available\_Copies AS Copies from Books;

SQLAdditions

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

Object Info Session

32°C Mostly cloudy

33°C Partly sunny

File Edit View Query Database Server Tools Scripting Help

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Administration Schemas

Information

No object selected

Books 11 x

Output

Action Output

| Book_Id | Title             | author  | Genre     | Published_Year | Available_copies |
|---------|-------------------|---------|-----------|----------------|------------------|
| 3       | Wuthering Heights | Emily   | Fantasy   | 1851           | 7                |
| 8       | Beowulf           | Unknown | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous  | Dystopian | 1869           | 7                |
| 3       | Wuthering Heights | Emily   | Fantasy   | 1851           | 7                |
| 8       | Beowulf           | Unknown | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous  | Dystopian | 1869           | 7                |

Result Grid | Filter Rows: Export: Wrap Cell Content: Done

SQL Task 1 \* SQL Task 2 \*

Find: Done

96 -- viii  
97 \* select \* from Books where Title like "%war";  
98  
99 -- ix  
100 \* select \* from Books where Author like "%Tolstoy";  
101  
102 -- x  
103 \* select Title AS Book\_Title, Available\_Copies AS Copies from Books;

SQLAdditions

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

Object Info Session

ENG IN 10:56 08-05-2025

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

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- Client Connections
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INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Books 38 x

Output

Action Output

| Book_Title        | Copies |
|-------------------|--------|
| Harry potter      | 4      |
| Lords of Rings    | 5      |
| Wuthering Heights | 7      |
| Jane Eye          | 2      |
| Rebecca war       | 1      |
| The African Queen | 5      |
| Animal farm       | 3      |
| Bonefire          | 6      |
| New Wind-H        | 7      |

Result Grid | Filter Rows: Export: Wrap Cell Content: Done

SQL Task 1 \* SQL Task 2 \*

Find: Done

96 -- viii  
97 \* select \* from Books where Title like "%war";  
98  
99 -- ix  
100 \* select \* from Books where Author like "%Tolstoy";  
101  
102 -- x  
103 \* select Title AS Book\_Title, Available\_Copies AS Copies from Books;

SQLAdditions

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

Object Info Session

ENG IN 14:47 07-05-2025

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar contains sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup). The main area features a query editor with three tabs: 'Query Task 1' (selected), 'SQL Task 1', and 'SQL Task 2'. The 'Query Task 1' tab displays the following SQL code:

```
89
90 -- vi
91 • select * from Books where Author like "%Tolkien";
92
93 -- vii
94 • select * from Books where Genre like "Fiction";
95
96 -- viii
97 • select * from Books where Title like "%War";
98
99 -- ix
100 • select * from Books where Author like "%Tolstoy";
101
```

The results grid below shows one row of data:

| Book_Id | Title       | author         | Genre   | Published_Year | Available_copies |
|---------|-------------|----------------|---------|----------------|------------------|
| 7       | Animal farm | George Tolstoy | Fiction | 2005           | 3                |

The bottom pane shows the 'Books 35 x' output with two log entries:

| #   | Time     | Action  | Message           | Duration / Fetch      |
|-----|----------|---|-------------------|-----------------------|
| 109 | 14:22:44 | select * from Books where Title like "%war" LIMIT 0, 400      | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 110 | 14:24:35 | select * from Books where Author like "%Tolstoy" LIMIT 0, 400 | 1 row(s) returned | 0.000 sec / 0.000 sec |

The screenshot shows the MySQL Workbench interface. The top menu includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup). The central area has two tabs: 'Query Task 1' and 'SQL Task 2'. The 'Query Task 1' tab contains the following SQL code:

```
86 -- v
87 • select * from Books where Title like "The%";  
88  
89 -- vi  
90 • select * from Books where Author like "Tolkien";  
91  
92 -- viii  
93 • select * from Books where Genre like "Fiction";  
94  
95 -- viii  
96 • select * from Books where Title like "%war";  
97  
no
```

The results grid shows the following data:

| Book_Id | Title       | author | Genre     | Published_Year | Available_copies |
|---------|-------------|--------|-----------|----------------|------------------|
| 5       | Rebecca war | Daphne | Adventure | 1937           | 1                |

The bottom status bar displays the following information:

- Books 34 x
- Output
- Action Output
- Time Action
- 108 14:21:48 select \* from Books where Genre like "Fiction" LIMIT 0, 400
- 109 14:22:44 select \* from Books where Title like "%war" LIMIT 0, 400
- Message 2 row(s) returned
- Message 1 row(s) returned
- Duration / Fetch 0.000 sec / 0.000 sec
- 0.000 sec / 0.000 sec

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Books 33 x

Output

Action Output

| #   | Time     | Action  | Message   | Duration / Fetch      |
|-----|----------|---|---|-----------------------|
| 107 | 14:21:06 | Update books set genre=fiction                              | Error Code: 1054 Unknown column 'fiction' in field list | 0.000 sec / 0.000 sec |
| 108 | 14:21:48 | select * from Books where Genre like "Fiction" LIMIT 0, 400 | 2 row(s) returned                                       | 0.000 sec / 0.000 sec |

Object Info Session

33°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

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Navigator

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**PERFORMANCE**

- Dashboard
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- Performance Schema Setup

Administration Schemas

No object selected

Books 30 x

Output

Action Output

| #   | Time     | Action  | Message           | Duration / Fetch      |
|-----|----------|---|-------------------|-----------------------|
| 100 | 14:05:22 | select * from Books where Title like "%The%" LIMIT 0, 400 | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 101 | 14:08:25 | select * from Books where Author like "%Tolkien%"         | 1 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

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MySQL Workbench

Local instance MySQL80

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Books 29 x

Output

Action Output

| #   | Time     | Action   | Message  | Duration / Fetch      |
|-----|----------|--|--|-----------------------|
| 99  | 14:05:03 | select * from Books where name like "The%" LIMIT 0, 400  | Error Code: 1054 Unknown column 'name' in 'where clause' | 0.000 sec / 0.000 sec |
| 100 | 14:05:22 | select * from Books where Title like "The%" LIMIT 0, 400 | 1 row(s) returned  | 0.000 sec / 0.000 sec |

Object Info Session

33°C Mostly cloudy

MySQL Workbench

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**PERFORMANCE**

- Dashboard
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Administration Schemas

No object selected

Books 4 x

Output

Action Output

| # | Time     | Action   | Message           | Duration / Fetch      |
|---|----------|--|-------------------|-----------------------|
| 5 | 10:04:36 | select * from Books where available_copies>5 LIMIT 0, 400  | 3 row(s) returned | 0.000 sec / 0.000 sec |
| 6 | 10:09:51 | select * from Books where (published_year between 1850 and 1950) and (available_copies>5) LIMIT 0, 400 | 2 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

Trending videos Discover Sonlent...

MySQL Workbench

Local instance MySQL80 ×

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas Information

No object selected

Books 27 ×

Output

Action Output

| Book_id | Title             | author         | Genre     | Published_Year | Available_copies |
|---------|-------------------|----------------|-----------|----------------|------------------|
| 5       | Rebecca           | Daphne         | Adventure | 1937           | 1                |
| 6       | The African Queen | C S Forester   | Adventure | 1938           | 5                |
| 7       | Animal farm       | George Tolstoy | Fiction   | 2005           | 3                |
| 8       | Beowulf           | Unknown        | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous         | Dystopian | 1869           | 7                |
| 10      | Vanity Fair       | William        | Fantasy   | 1997           | 4                |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

SQL Task 1 × SQL Task 2 ×

Find Done SQLAdditions

```

70 • insert into Books values(009, "New World", "Aldous", "Dystopian", 1869, 7);
71 • insert into Books values(010, "Vanity Fair", "William", "Fantasy", 1997, 4);
72 • drop table Books;
73
74 -- i
75 • select * from Books where available_copies between 4 and 7;
76
77 -- ii
78 • select * from Books where published_year between 1800 and 1900;
79
80 -- iii
81 • select * from Books where Book_id between 5 and 10;

```

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

Result Grid Form Editor

Read Only Context Help Snippets

Object Info Session

35°C Mostly cloudy Search ENG IN 12:37 07-05-2025

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas Information

No object selected

Books 26 ×

Output

Action Output

| Book_id | Title             | author  | Genre     | Published_Year | Available_copies |
|---------|-------------------|---------|-----------|----------------|------------------|
| 3       | Wuthering Heights | Emily   | Fantasy   | 1851           | 7                |
| 8       | Beowulf           | Unknown | Thriller  | 1813           | 6                |
| 9       | New World         | Aldous  | Dystopian | 1869           | 7                |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

SQL Task 1 × SQL Task 2 ×

Find Done SQLAdditions

```

67 • insert into Books values(006, "The African Queen", "C S Forester", "Adventure", 1988, 5);
68 • insert into Books values(007, "Animal farm", "George Tolstoy", "Fiction", 2005, 3);
69 • insert into Books values(008, "Beowulf", "Unknown", "Thriller", 1813, 6);
70 • insert into Books values(009, "New World", "Aldous", "Dystopian", 1869, 7);
71 • insert into Books values(010, "Vanity Fair", "William", "Fantasy", 1997, 4);
72 • drop table Books;
73
74 -- i
75 • select * from Books where available_copies between 4 and 7;
76
77 -- ii
78 • select * from Books where published_year between 1800 and 1900;

```

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

Result Grid Form Editor

Read Only Context Help Snippets

Object Info Session

35°C Mostly cloudy Search ENG IN 12:35 07-05-2025

**MySQL Workbench**

Local instance MySQL80

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Books 25 x

Output

Action Output

| #  | Time     | Action  | Message            | Duration / Fetch      |
|----|----------|---|--------------------|-----------------------|
| 92 | 12:28:06 | select * from Books LIMIT 0, 400  | 10 row(s) returned | 0.000 sec / 0.000 sec |
| 93 | 12:31:30 | select * from Books where available_copies between 4 and 7 LIMIT 0, 400 | 7 row(s) returned  | 0.000 sec / 0.000 sec |

Object Info Session

35°C Mostly cloudy

**MySQL Workbench**

Local instance MySQL80

**MANAGEMENT**

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- Data Export
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**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

No object selected

Result 20 x

Output

Action Output

| #  | Time     | Action   | Message           | Duration / Fetch      |
|----|----------|--|-------------------|-----------------------|
| 64 | 11:57:35 | select sum(salary) from Employee where salary<60000 LIMIT 0, 400 | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 65 | 12:00:05 | select avg(salary) from employee where salary>60000 LIMIT 0, 400 | 1 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

35°C Rain this afternoon...

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar has sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup). The main area features a query editor with three tabs: 'Query 1.sql'\*, 'SQL Task 1', and 'SQL Task 2\*\*'. The 'SQL Task 2\*\*' tab contains the following SQL code:

```
46 -- vi
47 • select department, avg(salary) from Employee group by department having department="Engineering";
48
49 -- vii
50 • select count(*) from employee where salary between 50000 and 70000;
51
52 -- viii
53 • select sum(salary) from Employee where salary<60000;
54
```

The results grid shows the output of the last query:

| sum(salary) |
|-------------|
| 421000      |

The bottom pane displays the 'Result 19' tab with the following log entries:

| Action Output | Time     | Action  | Message           | Duration / Fetch      |
|---------------|----------|---|-------------------|-----------------------|
| #             |          |   |                   | 0.000 sec / 0.000 sec |
| 63            | 11:54:31 | select count(salary)from employee where salary between 50000 and 70000 LIMIT 0, 400 | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 64            | 11:57:35 | select sum(salary)from Employee where salary<60000 LIMIT 0, 400                     | 1 row(s) returned | 0.000 sec / 0.000 sec |

The screenshot shows the MySQL Workbench interface. The left sidebar contains navigation links for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup). The main area has tabs for Navigator, Query 1.sql\* (containing a query to find HR departmental salary sum and average), SQL Task 1, and SQL Test2\*. Below the tabs is a toolbar with icons for file operations. The central part of the screen shows a query editor with the following code:

```
43 -- v
44 • select department, sum(salary) from Employee group by department having department="HR";
45
46 -- vi
47 • select department, avg(salary) from Employee group by department having department="Engineering";
48
49 -- v11
50 • select count(*) from employee where salary between 50000 and 70000;
51
```

Below the code is a Result Grid showing the output of the last query:

| count(*) |
|----------|
| 9        |

On the right side, there is a vertical toolbar with icons for Result Grid, Form Editor, Field Types, and Query Stats. At the bottom, there are tabs for Read Only, Context Help, and Snippets, along with system status indicators like temperature (35°C), battery level, and network connectivity.

**MySQL Workbench**

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Result 15 x

Output

Action Output

| #  | Time     | Action  | Message           | Duration / Fetch      |
|----|----------|---|-------------------|-----------------------|
| 59 | 11:46:08 | select department, sum(salary) from Employee group by department having department='HR' LIMIT 0, 400                            | 1 row(s) returned | 0.015 sec / 0.000 sec |
| 60 | 11:49:21 | select department, avg(salary) from Employee group by department having department='Engineering' LIMIT 0, ... 1 row(s) returned |                   | 0.000 sec / 0.000 sec |

Object Info Session

35°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

**MANAGEMENT**

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

**INSTANCE**

- Startup / Shutdown
- Server Logs
- Options File

**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Result 14 x

Output

Action Output

| #  | Time     | Action   | Message           | Duration / Fetch      |
|----|----------|--|-------------------|-----------------------|
| 58 | 11:41:24 | select min(salary) from Employee LIMIT 0, 400  | 1 row(s) returned | 0.000 sec / 0.000 sec |
| 59 | 11:46:08 | select department, sum(salary) from Employee group by department having department='HR' LIMIT 0, 400 | 1 row(s) returned | 0.015 sec / 0.000 sec |

Object Info Session

35°C Mostly cloudy

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

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Result 13 x

Output

Action Output

| #  | Time     | Action  | Message          | Duration / Fetch      |
|----|----------|---|------------------|-----------------------|
| 57 | 11:40:09 | select max(salary) from Employee LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |
| 58 | 11:41:24 | select min(salary) from Employee LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

35°C Afternoon rain

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
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- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Result 14 x

Output

Action Output

| #  | Time    | Action   | Message | Duration / Fetch |
|----|---------|--|---------|------------------|
| 31 | -- i)   | select avg(salary) from Employee;                      |         |                  |
| 32 | -- ii)  | select count(salary) from Employee where salary<55000; |         |                  |
| 33 | -- iii) | select max(salary) from Employee;                      |         |                  |
| 34 | -- iv)  | select min(salary) from Employee;                      |         |                  |

Result Grid Filter Rows Export Wrap Cell Content

max(salary)

88000

SQLAdditions

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

Result Grid Form Editor Field Types Query Stats

Read Only Context Help Snippets

ENG IN 11:41 07-05-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Result 15 x

Output

Action Output

| #  | Time     | Action   | Message          | Duration / Fetch      |
|----|----------|--|------------------|-----------------------|
| 56 | 11:35:22 | select count(salary) from Employee where salary<55000 LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |
| 57 | 11:40:09 | select max(salary) from Employee LIMIT 0, 400                      | 1row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

35°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Result 16 x

Output

Action Output

| #  | Time    | Action   | Message | Duration / Fetch |
|----|---------|--|---------|------------------|
| 31 | -- i)   | select avg(salary) from Employee;                      |         |                  |
| 32 | -- ii)  | select count(salary) from Employee where salary<55000; |         |                  |
| 33 | -- iii) | select max(salary) from Employee;                      |         |                  |
| 34 | -- iv)  | select min(salary) from Employee;                      |         |                  |

Result Grid Filter Rows Export Wrap Cell Content

max(salary)

88000

SQLAdditions

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

Result Grid Form Editor Field Types Query Stats

Read Only Context Help Snippets

ENG IN 11:40 07-05-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Result 11 x

Output

Action Output

| #  | Time     | Action   | Message          | Duration / Fetch      |
|----|----------|--|------------------|-----------------------|
| 55 | 11:31:59 | select avg(salary) from Employee LIMIT 0, 400                      | 1row(s) returned | 0.000 sec / 0.000 sec |
| 56 | 11:35:22 | select count(salary) from Employee where salary<55000 LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

count(salary)

5

SQLAdditions

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

Result Grid

Form Editor

Field Types

Query Stats

Read Only Context Help Snippets

34°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Result 11 x

Output

Action Output

| #  | Time     | Action   | Message          | Duration / Fetch      |
|----|----------|--|------------------|-----------------------|
| 55 | 11:31:59 | select avg(salary) from Employee LIMIT 0, 400                      | 1row(s) returned | 0.000 sec / 0.000 sec |
| 56 | 11:35:22 | select count(salary) from Employee where salary<55000 LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

count(salary)

5

SQLAdditions

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

Result Grid

Form Editor

Field Types

Query Stats

Read Only Context Help Snippets

34°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
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INSTANCE

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PERFORMANCE

- Dashboard
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- Performance Schema Setup

Administration Schemas

Information

No object selected

Result 10 x

Output

Action Output

| #  | Time     | Action   | Message          | Duration / Fetch      |
|----|----------|--|------------------|-----------------------|
| 54 | 11:26:15 | select sum(salary) from Employee where salary>60000 LIMIT 0, 400 | 1row(s) returned | 0.000 sec / 0.000 sec |
| 55 | 11:31:59 | select avg(salary) from Employee LIMIT 0, 400                    | 1row(s) returned | 0.000 sec / 0.000 sec |

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

avg(salary)

60800.000

SQLAdditions

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

Result Grid

Form Editor

Field Types

Query Stats

Read Only Context Help Snippets

34°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

**MANAGEMENT**

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**INSTANCE**

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Result 9

Action Output

| #  | Time     | Action   | Message            | Duration / Fetch      |
|----|----------|--|--------------------|-----------------------|
| 53 | 11:22:03 | select * from Employee LIMIT 0, 400                              | 15 row(s) returned | 0.000 sec / 0.000 sec |
| 54 | 11:26:15 | select sum(salary) from Employee where salary>60000 LIMIT 0, 400 | 1 row(s) returned  | 0.000 sec / 0.000 sec |

Object Info Session

34°C Rain this afternoon

MySQL Workbench

Local instance MySQL80

**MANAGEMENT**

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**PERFORMANCE**

- Dashboard
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- Performance Schema Setup

Administration Schemas

No object selected

Employee 6

Action Output

| #  | Time     | Action  | Message            | Duration / Fetch      |
|----|----------|---|--------------------|-----------------------|
| 32 | 11:18:06 | insert into Employee values(15, "Oscar", "Robinson", "Marketing", 66000.00, "2019-02-28") | 1 row(s) affected  | 0.000 sec             |
| 33 | 11:18:09 | select * from Employee LIMIT 0, 400   | 18 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

34°C Mostly cloudy

MySQL Workbench

Local instance MySQL80

**MANAGEMENT**

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**PERFORMANCE**

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

No object selected

Employee 6

Action Output

| #  | Time     | Action   | Message            | Duration / Fetch      |
|----|----------|--|--------------------|-----------------------|
| 11 | 11:18:06 | insert into Employee values(1, "Alice", "Smith", "Engineering", 75000.00, "2018-03-01")    |                    |                       |
| 12 | 11:18:06 | insert into Employee values(2, "Bob", "Jones", "HR", 58000.00, "2019-07-15")               |                    |                       |
| 13 | 11:18:06 | insert into Employee values(3, "Charlie", "Brown", "Engineering", 62000.00, "2020-01-10")  |                    |                       |
| 14 | 11:18:06 | insert into Employee values(4, "David", "Wilson", "Sales", 49000.00, "2017-05-21")         |                    |                       |
| 15 | 11:18:06 | insert into Employee values(5, "Eva", "Taylor", "HR", 54000.00, "2021-11-30")              |                    |                       |
| 16 | 11:18:06 | insert into Employee values(6, "Frank", "Anderson", "Engineering", 88000.00, "2016-09-05") |                    |                       |
| 17 | 11:18:06 | insert into Employee values(7, "Grace", "Thomas", "Marketing", 45000.00, "2022-02-14")     |                    |                       |
| 18 | 11:18:06 | insert into Employee values(8, "Hannah", "Jackson", "Sales", 67000.00, "2015-08-08")       |                    |                       |
| 19 | 11:18:06 | insert into Employee values(9, "Ian", "White", "Engineering", 59000.00, "2019-12-23")      |                    |                       |
| 10 | 11:18:09 | select * from Employee LIMIT 0, 400  | 18 row(s) returned | 0.000 sec / 0.000 sec |

Object Info Session

34°C Mostly cloudy

