

MySQL Workbench

Local instance MySQL80

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Administration Schemas

Information

Schema: indexing

SQL File 10*

employee employeeesalaryview employeeesalaryview

Limit to 1000 rows

```

1 -- 18) How can you check which indexes exist in a table?
2 SELECT * FROM INFORMATION_SCHEMA.STATISTICS
3 WHERE TABLE_NAME = 'department' AND TABLE_SCHEMA = 'indexing';
4
5

```

Result Grid

TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	NON_UNIQUE	INDEX_SCHEMA	INDEX_NAME	SEQ_IN_INDEX	COLUMN_NAME	COLLATION	CARDINALITY	SUB_PART	PACKED	NULLABLE
def	indexing	department	0	indexing	PRIMARY	1	DepartmentID	A	5			

STATISTICS 3

Output

#	Time	Action	Message	Duration / Fetch
4	16:56:47	SELECT * FROM INFORMATION_SCHEMA.STATISTICS WHERE TABLE_NAME = 'students' AND TABLE_SCHEMA = 'indexing'	0 row(s) returned	0.000 sec / 0.000 sec
5	16:58:59	SELECT * FROM INFORMATION_SCHEMA.STATISTICS WHERE TABLE_NAME = 'department' AND TABLE_SCHEMA = 'indexing'	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

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Administration Schemas

Information

Schema: indexing

SQL File 10*

employee employeeesalaryview employeeesalaryview

Limit to 1000 rows

```

1 SHOW INDEX FROM department;
2
3

```

Result Grid

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
department	0	PRIMARY	1	DepartmentID	A	5				BTREE			YES	

Result 1

Output

#	Time	Action	Message	Duration / Fetch
2	16:38:44	INSERT INTO employee (id, name, salary) VALUES (1, 'Nice', 50000)	Error Code: 1054 Unknown column 'id' in 'field list'	0.015 sec
3	16:54:51	SHOW INDEX FROM department	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

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Administration Schemas

Information

Schema: indexing

SQL File 6* employee department employeeedetails employeeessalaryview employeeessalaryview employee employeeessalaryview employeeessalaryview

Limit to 1000 rows

```
1 -- 15). Write an SQL query to create a unique index on the Name column
2 • CREATE UNIQUE INDEX idx_unique_name ON Employee(Name);
3
```

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

Context Help Snippets

Output

Action	Time	Message	Duration / Fetch
DROP INDEX idx_salary ON Employee	9 12:35:36	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.000 sec
CREATE UNIQUE INDEX idx_unique_name ON Employee(Name)	10 13:01:23	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec

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Administration Schemas

Information

Schema: indexing

SQL File 6* employee department employeeedetails employeeessalaryview employeeessalaryview employee employeeessalaryview employeeessalaryview

Limit to 1000 rows

```
1 -- 17). Write an SQL command to drop an index named idx_salary.
2 • DROP INDEX idx_salary ON Employee;
3
```

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

Context Help Snippets

Output

Action	Time	Message	Duration / Fetch
CREATE INDEX idx_age ON Employee(Age)	8 12:28:30	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
DROP INDEX idx_salary ON Employee	9 12:35:36	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.000 sec

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Administration Schemas

Information

Schema: indexing

SQL File 6" employee department employee details employeesalaryview employeesalaryview employee employeesalaryview employeesalaryview

Limit to 1000 rows

```

1 -- 12)Write an SQL query to create an index on the Age column of the Employee table.
2 DROP INDEX idx_age ON Employee;
3 CREATE INDEX idx_age ON Employee(Age);
4

```

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

Context Help Snippets

Output

Action	Time	Action	Message	Duration / Fetch
7	12:28:30	DROP INDEX idx_age ON Employee	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
8	12:28:30	CREATE INDEX idx_age ON Employee(Age)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec

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Administration Schemas

Information

View: employeesalaryview

Columns:

Name	varchar(50)
Salary	decimal(10,2)

SQL File 10" employee employee department project SQL File 6" employee department employee details employeesalaryview employeesalaryview employee

Limit to 1000 rows

```

1 -- 12. Write an SQL query to create an index on the Age column of the Employee table.
2
3 CREATE INDEX idx_age ON Employee(Age);
4

```

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

Context Help Snippets

Output

Action	Time	Action	Message	Duration / Fetch
46	21:13:24	CREATE INDEX idx_age ON Employee(Age)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.062 sec
47	21:13:44	SELECT * FROM indexing.employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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Administration Schemas

Information

View: employeesalaryview

Columns:

- Name: varchar(50)
- Salary: decimal(10,2)

SQL File 10* employee employee department project SQL File 6* employee department employeesalaryview employeesalaryview

Limit to 1000 rows

```
1 -- 7) Create a view that displays employees who have a salary greater than 60,000.
2 * CREATE VIEW HighSalaryEmployees AS
3 SELECT EmployeeID, Name, Salary
4 FROM Employee
5 WHERE Salary > 60000;
6
```

SQLAdditions

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

Context Help Snippets

Output

Action Output

Time	Action	Message	Duration / Fetch
44 21:09:28	CREATE VIEW HighSalaryEmployees AS SELECT EmployeeID, Name, Salary, Department FROM Employee WHERE	Error Code: 1054 Unknown column 'Department' in field list	0.016 sec
45 21:10:25	CREATE VIEW HighSalaryEmployees AS SELECT EmployeeID, Name, Salary FROM Employee WHERE Salary > ...	0 row(s) affected	0.000 sec

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Administration Schemas

Information

No object selected

SQL File 10* employee employee department project SQL File 6* employee department employeesalaryview employeesalaryview

Limit to 1000 rows

```
1 -- 5)Write an SQL command to drop the EmployeeDetails view.
2 * DROP VIEW EmployeeDetails;
3
4
```

SQLAdditions

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

Context Help Snippets

Output

Action Output

Time	Action	Message	Duration / Fetch
38 20:26:20	SELECT * FROM EmployeeDetails LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
39 20:27:57	DROP VIEW EmployeeDetails	0 row(s) affected	0.000 sec

Object Info Session

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Administration Schemas

Information

Schema: indexing

SQL Editor

```

1 BEGIN;
2 UPDATE Employee SET Salary = Salary * 1.10 WHERE DepartmentID = 2;
3 COMMIT;

```

Result Grid

EmployeeID	Name	Age	DepartmentID	Salary	JoiningDate
1	John Doe	30	1	50000.00	2021-06-15
2	Jane Smith	28	2	60000.00	2020-09-23
3	Michael Brown	35	3	75000.00	2019-04-10
4	Emily Davis	40	4	55000.00	2018-11-30
5	Daniel Wilson	45	5	80000.00	2017-07-20

Output

Action Output

Time	Action	Message	Duration / Fetch
31 20:10:36	SELECT * FROM indexing.department LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
32 20:10:38	SELECT * FROM indexing.employee LIMIT 0, 1000	5 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information

Schema: indexing

SQL Editor

```

1 CREATE INDEX idx_salary ON Employee (Salary);

```

Result Grid

EmployeeID	Name	Age	DepartmentID	Salary	JoiningDate
1	John Doe	30	1	50000.00	2021-06-15
2	Jane Smith	28	2	60000.00	2020-09-23
3	Michael Brown	35	3	75000.00	2019-04-10
4	Emily Davis	40	4	55000.00	2018-11-30
5	Daniel Wilson	45	5	80000.00	2017-07-20

Output

Action Output

Time	Action	Message	Duration / Fetch
26 20:09:14	CREATE INDEX idx_salary ON Employee (Salary)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.046 sec
27 20:09:28	SELECT * FROM indexing.employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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Administration Schemas

Information

Schema: indexing

SQL File 6

```

1 CREATE VIEW EmployeeDetails AS
2 SELECT EmployeeID, Name, Age, Salary, DepartmentName
3 FROM Employee
4 JOIN Department ON Employee.DepartmentID = Department.DepartmentID;

```

Result Grid

EmployeeID	Name	Age	DepartmentID	Salary	JoiningDate
1	John Doe	30	1	50000.00	2021-06-15
2	Jane Smith	28	2	60000.00	2020-09-23
3	Michael Brown	35	3	75000.00	2019-04-10
4	Emily Davis	40	4	55000.00	2018-11-30
5	Daniel Wilson	45	5	80000.00	2017-07-20

Output

Action Output

Time	Action	Message	Duration / Fetch
24 20:08:07	SELECT * FROM indexing.department LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25 20:08:10	SELECT * FROM indexing.employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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Administration Schemas

Information

Schema: indexing

SQL File 6

```

1 * INSERT INTO Employee (Name, Age, DepartmentID, Salary, JoiningDate) VALUES
2 ('John Doe', 30, 1, 50000, '2021-06-15'),
3 ('Jane Smith', 28, 2, 60000, '2020-09-23'),
4 ('Michael Brown', 35, 3, 75000, '2019-04-10'),
5 ('Emily Davis', 40, 4, 55000, '2018-11-30'),
6 ('Daniel Wilson', 45, 5, 80000, '2017-07-20');

```

Output

Action Output

Time	Action	Message	Duration / Fetch
21 20:06:23	SELECT * FROM indexing.department LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
22 20:07:03	INSERT INTO Employee (Name, Age, DepartmentID, Salary, JoiningDate) VALUES ('John Doe', 30, 1, 50000, 2021-06-15), ('Jane Smith', 28, 2, 60000, 2020-09-23), ('Michael Brown', 35, 3, 75000, 2019-04-10), ('Emily Davis', 40, 4, 55000, 2018-11-30), ('Daniel Wilson', 45, 5, 80000, 2017-07-20);	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

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Administration Schemas Information

Schema: indexing

employee department project SQL File 6 project employeeproject department employee employee department employee department department department

Limit to 1000 rows

```
1 INSERT INTO Department (DepartmentName, Location) VALUES
2 ('HR', 'New York'),
3 ('IT', 'San Francisco'),
4 ('Finance', 'Chicago'),
5 ('Marketing', 'Los Angeles'),
6 ('Sales', 'Houston');
```

Result Grid

DepartmentID	DepartmentName	Location
1	HR	New York
2	IT	San Francisco
3	Finance	Chicago
4	Marketing	Los Angeles
5	Sales	Houston

department 1 x

Output

Action	Time	Action	Message	Duration / Fetch
20	20:06:12	INSERT INTO Department (DepartmentName, Location) VALUES ('HR', 'New York'), ('IT', 'San Francisco'), ('Finance', 'Chicago'), ('Marketing', 'Los Angeles'), ('Sales', 'Houston');	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
21	20:06:23	SELECT * FROM indexing.department LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

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

Reach (url)

Form Editor

Field Types