

MySQL Workbench

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Table: emp

Columns:

empno int

Query 1

Limit to 1000 rows

```
101 • create table emp
102 • (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),c
103 • insert into emp VALUES
104 • (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20),
105 • (8499,'anya','salesman',8698,'1991-02-20',1600.00,300.00,30),
106 • (8521,'seth','salesman',8698,'1991-02-22',1250.00,500.00,30),
107 • (8566,'mahadevan','manager',8839,'1991-04-02',2985.00,NULL,20),
108 • (8654,'momin','salesman',8698,'1991-09-28',1250.00,1400.00,30),
109 • (8698,'bina','manager',8839,'1991-05-01',2850.00,NULL,30),
110 • (8882,'shriavsh','manager',8839,'1991-06-09',2450.00,NULL,10),
111 • (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 • (8839,'amlr','president',NULL,'1991-11-18',5000.00,NULL,10),
113 • (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 • SELECT ename, sal FROM emp WHERE sal >= 2200;
115 • SELECT * FROM emp WHERE comm IS NULL;
```

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

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	09:40:25	create table emp(empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	0 row(s) affected. 3 warning(s): 1681 Integer display width is deprecated and will be removed in a future release...	2.391 sec

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Information

Table: emp

Columns:

empno int

ename varchar(20)

job varchar(20)

mgr int

hiredate date

sal float

comm float

deptno int

Object Info Session

Query 1

Limit to 1000 rows

```
101 • create table emp
102 • (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),c
103 • insert into emp VALUES
104 • (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20),
105 • (8499,'anya','salesman',8698,'1991-02-20',1600.00,300.00,30),
106 • (8521,'seth','salesman',8698,'1991-02-22',1250.00,500.00,30),
107 • (8566,'mahadevan','manager',8839,'1991-04-02',2985.00,NULL,20),
108 • (8654,'momin','salesman',8698,'1991-09-28',1250.00,1400.00,30),
109 • (8698,'bina','manager',8839,'1991-05-01',2850.00,NULL,30),
110 • (8882,'shriavsh','manager',8839,'1991-06-09',2450.00,NULL,10),
111 • (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 • (8839,'amlr','president',NULL,'1991-11-18',5000.00,NULL,10),
113 • (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 • SELECT ename, sal FROM emp WHERE sal >= 2200;
115 • SELECT * FROM emp WHERE comm IS NULL;
```

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	14:17:08	create table emp(empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
13	14:18:53	SELECT ename FROM emp WHERE SUBSTRING(ename, -1) = 'T' LIMIT 0, 1000	2 row(s) returned	0.062 sec / 0.000 sec
14	14:19:37	select city from customers LIMIT 0, 1000	92 row(s) returned	0.125 sec / 0.016 sec
15	14:23:30	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'anya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.093 sec
16	14:24:58	create table emp(empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'anya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec

Query Completed

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Table: emp

Columns:

empno int

ename varchar(20)

job varchar(20)

mgr int

hiredate date

sal float

comm float

deptno int

Object Info Session

Query Completed

Query 1

Limit to 1000 rows

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

SELECT ename, sal FROM emp WHERE sal >= 2200

Result Grid

ename	sal
mahadevan	2985
bina	2850
shivnsh	2450
scott	3000
skir	3000
mahadevan	2985
bina	2850
shivnsh	2450
scott	3000
amir	5000
mahadevan	2985

emp 7

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Action Output

#	Time	Action	Message	Duration / Fetch
13	14:18:53	SELECT ename FROM emp WHERE SUBSTRING(ename, -1) = 'T' LIMIT 0, 1000	2 row(s) returned	0.062 sec / 0.000 sec
14	14:19:37	select city from customers LIMIT 0, 1000	92 row(s) returned	0.125 sec / 0.016 sec
15	14:23:30	insert into emp VALUES (8369,'mnh','clerk','8902','1990-12-18','800.00','NULL',20), (8499,'arya','salesman','8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.093 sec
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'mnh','clerk','8902','1990-12-18','800.00','NULL',20), (8499,'arya','salesman','8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

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Information

Table: emp

Columns:

empno int

ename varchar(20)

job varchar(20)

mgr int

hiredate date

sal float

comm float

deptno int

Object Info Session

Query Completed

Query 1

Limit to 1000 rows

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

SELECT ename, sal FROM emp WHERE sal >= 2200

Result Grid

ename	sal
amir	5000
mahadevan	2985
bina	2850
shivnsh	2450
scott	3000
amir	5000
mahadevan	2985
bina	2850
shivnsh	2450
scott	3000
amir	5000

emp 7

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Action Output

#	Time	Action	Message	Duration / Fetch
13	14:18:53	SELECT ename FROM emp WHERE SUBSTRING(ename, -1) = 'T' LIMIT 0, 1000	2 row(s) returned	0.062 sec / 0.000 sec
14	14:19:37	select city from customers LIMIT 0, 1000	92 row(s) returned	0.125 sec / 0.016 sec
15	14:23:30	insert into emp VALUES (8369,'mnh','clerk','8902','1990-12-18','800.00','NULL',20), (8499,'arya','salesman','8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.093 sec
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'mnh','clerk','8902','1990-12-18','800.00','NULL',20), (8499,'arya','salesman','8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

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Table: emp

Columns:

empno int

ename varchar(20)

job varchar(20)

mgr int

hiredate date

sal float

comm float

deptno int

Object Info Session

Query Completed

Query 1

Limit to 1000 rows

SQL Additions

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```
109 (8698,'bina','manager',8839,'1991-05-01',2850.00,NULL,30),
110 (8882,'shivnsh','manager',8839,'1991-06-09',2450.00,NULL,10),
111 (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30),
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
```

Result Grid

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	smith	clerk	8902	1990-12-18	800		20
8566	mahadevan	manager	8839	1991-04-02	2985		20
8698	bina	manager	8839	1991-05-01	2850		30
8839	amir	president		1991-11-18	5000		10
8882	shivnsh	manager	8839	1991-06-09	2450		10
8886	arub	clerk	8888	1993-01-12	1100		20
8888	scott	analyst	8566	1992-12-09	3000		20
8900	jatin	clerk	8698	1991-12-03	950		30
8902	fakir	analyst	8566	1991-12-03	3000		20
8934	mita	clerk	8882	1992-01-23	1300		10
8369	smith	clerk	8902	1990-12-18	800		20

emp 8

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Action Output

#	Time	Action	Message	Duration / Fetch
14	14:19:37	select city from customers LIMIT 0, 1000	92 row(s) returned	0.125 sec / 0.016 sec
15	14:23:30	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'arya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.093 sec
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'arya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec
19	14:30:42	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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Table: emp

Columns:

empno int

ename varchar(20)

job varchar(20)

mgr int

hiredate date

sal float

comm float

deptno int

Object Info Session

Query Completed

Query 1

Limit to 1000 rows

SQL Additions

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

```
109 (8698,'bina','manager',8839,'1991-05-01',2850.00,NULL,30),
110 (8882,'shivnsh','manager',8839,'1991-06-09',2450.00,NULL,10),
111 (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30),
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
```

Result Grid

empno	ename	job	mgr	hiredate	sal	comm	deptno
8566	mahadevan	manager	8839	1991-04-02	2985		20
8698	bina	manager	8839	1991-05-01	2850		30
8882	shivnsh	manager	8839	1991-06-09	2450		10
8888	scott	analyst	8566	1992-12-09	3000		20
8839	amir	president		1991-11-18	5000		10
8369	smith	clerk	8902	1990-12-18	800		20
8566	mahadevan	manager	8839	1991-04-02	2985		20
8698	bina	manager	8839	1991-05-01	2850		30
8882	shivnsh	manager	8839	1991-06-09	2450		10
8888	scott	analyst	8566	1992-12-09	3000		20
8839	amir	president		1991-11-18	5000		10

emp 9

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Action Output

#	Time	Action	Message	Duration / Fetch
15	14:23:30	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'arya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.093 sec
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm fl...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'arya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec
19	14:30:42	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec
20	14:31:31	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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Table: emp

Columns:

- empno int
- ename varchar(20)
- job varchar(20)
- mgr int
- hiredate date
- sal float
- comm float
- deptno int

Object Info Session

Query 1

Limit to 1000 rows

```
111 (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
116 SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL;
```

Result Grid

ename	sal
smith	800
anya	1600
seth	1250
momin	1250
amr	1500
kuldeep	1500
shivnsh	2450
anub	1100
jatin	950
mita	1300
smith	800

emp 10 x

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Action Output

#	Time	Action	Message	Duration / Fetch
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm f...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'anya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec
19	14:30:42	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec
20	14:31:31	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec
21	14:32:52	SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL LIMIT 0, 1000	31 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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Foreign Keys

Triggers

Table: emp

Columns:

- empno int
- ename varchar(20)
- job varchar(20)
- mgr int
- hiredate date
- sal float
- comm float
- deptno int

Object Info Session

Query 1

Limit to 1000 rows

```
111 (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
116 SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL;
```

Result Grid

ename	sal
momin	1250
shivnsh	2450
amr	5000
kuldeep	1500
smith	800
anya	1600
seth	1250
momin	1250
shivnsh	2450
amr	5000
kuldeep	1500

emp 10 x

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#	Time	Action	Message	Duration / Fetch
16	14:24:58	create table emp (empno int(10),ename varchar(20),job varchar(20),mgr int(5),hiredate date,sal float(10),comm f...	Error Code: 1050. Table 'emp' already exists	0.000 sec
17	14:29:08	insert into emp VALUES (8369,'smith','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'anya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
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20	14:31:31	SELECT * FROM emp WHERE comm IS NULL LIMIT 0, 1000	28 row(s) returned	0.000 sec / 0.000 sec
21	14:32:52	SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL LIMIT 0, 1000	31 row(s) returned	0.000 sec / 0.000 sec

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Query 1

Limit to 1000 rows

```
111 (8888,'scott','analyst',8566,'1992-12-09',3000.00,NULL,20),
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
116 SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL;
117 SELECT ename, job, sal FROM emp WHERE mgr IS NULL;
```

Result Grid

ename	job	sal
amir	president	1500
amir	president	5000
amir	president	5000
amir	president	5000

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#	Time	Action	Message	Duration / Fetch
17	14:29:08	insert into emp VALUES (8369,'amth','clerk',8902,'1990-12-18',800.00,NULL,20), (8499,'anya','salesman',8698...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.156 sec
18	14:29:47	SELECT ename, sal FROM emp WHERE sal >= 2200 LIMIT 0. 1000	20 row(s) returned	0.000 sec / 0.000 sec
19	14:30:42	SELECT * FROM emp WHERE comm IS NULL LIMIT 0. 1000	28 row(s) returned	0.000 sec / 0.000 sec
20	14:31:31	SELECT * FROM emp WHERE comm IS NULL LIMIT 0. 1000	28 row(s) returned	0.000 sec / 0.000 sec
21	14:32:52	SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL LIMIT 0. 1000	31 row(s) returned	0.000 sec / 0.000 sec
22	14:51:55	SELECT ename, job, sal FROM emp WHERE mgr IS NULL LIMIT 0. 1000	4 row(s) returned	0.000 sec / 0.000 sec

Table: emp

Columns:

- empno int
- ename varchar(20)
- job varchar(20)
- mgr int
- hiredate date
- sal float
- comm float
- deptno int

Object Info Session

Query Completed

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Limit to 1000 rows

```
112 (8839,'amir','president',NULL,'1991-11-18',5000.00,NULL,10),
113 (8844,'kuldeep','salesman',8698,'1991-09-08',1500.00,0.00,30);
114 SELECT ename, sal FROM emp WHERE sal >= 2200;
115 SELECT * FROM emp WHERE comm IS NULL;
116 SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL;
117 SELECT ename, job, sal FROM emp WHERE mgr IS NULL;
118 SELECT ename FROM emp WHERE SUBSTRING(ename, 3, 1) = 'A';
```

Result Grid

ename
-------

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Action Output

#	Time	Action	Message	Duration / Fetch
20	14:31:31	SELECT * FROM emp WHERE comm IS NULL LIMIT 0. 1000	28 row(s) returned	0.000 sec / 0.000 sec
21	14:32:52	SELECT ename, sal FROM emp WHERE sal < 2500 OR sal > 4000 OR sal IS NULL LIMIT 0. 1000	31 row(s) returned	0.000 sec / 0.000 sec
22	14:51:55	SELECT ename, job, sal FROM emp WHERE mgr IS NULL LIMIT 0. 1000	4 row(s) returned	0.000 sec / 0.000 sec
23	14:54:00	SELECT ename FROM emp WHERE SUBSTRING(ename, 3, 1) = 'A' LIMIT 0. 1000	0 row(s) returned	0.000 sec / 0.000 sec
24	14:54:12	SELECT ename FROM emp WHERE SUBSTRING(ename, 3, 1) = 'A' LIMIT 0. 1000	0 row(s) returned	0.000 sec / 0.000 sec
25	14:54:44	SELECT ename FROM emp WHERE SUBSTRING(ename, 3, 1) = 'A' LIMIT 0. 1000	0 row(s) returned	0.000 sec / 0.000 sec

Table: emp

Columns:

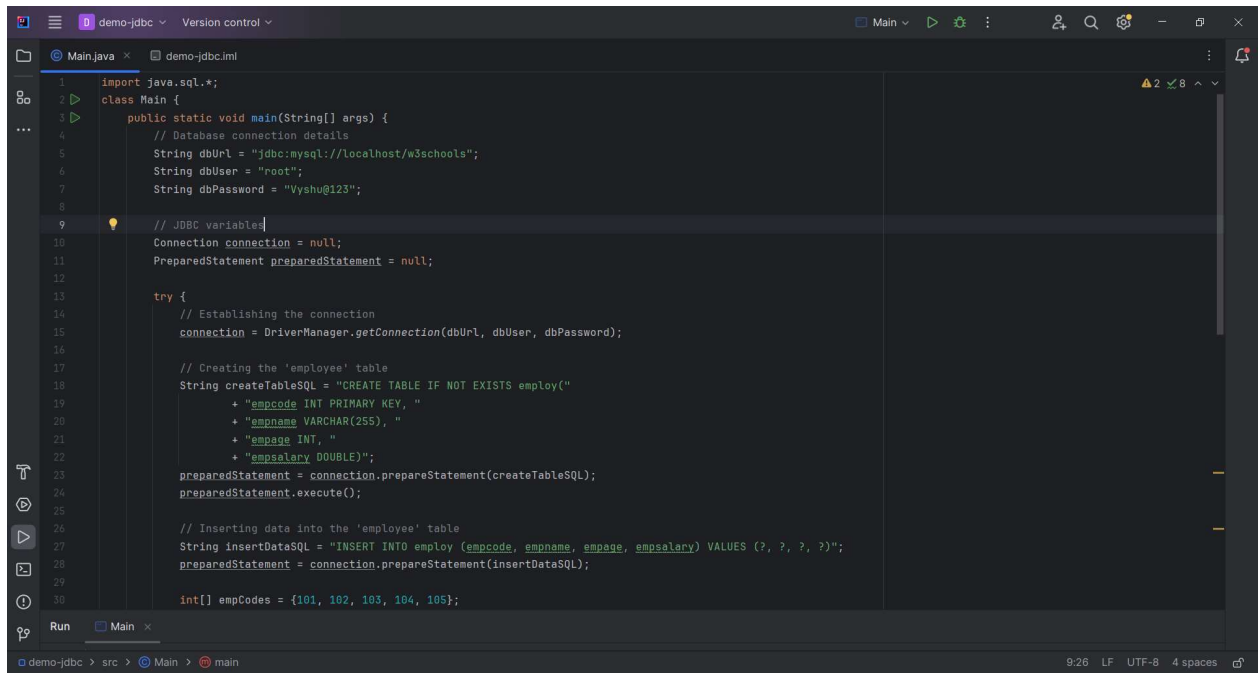
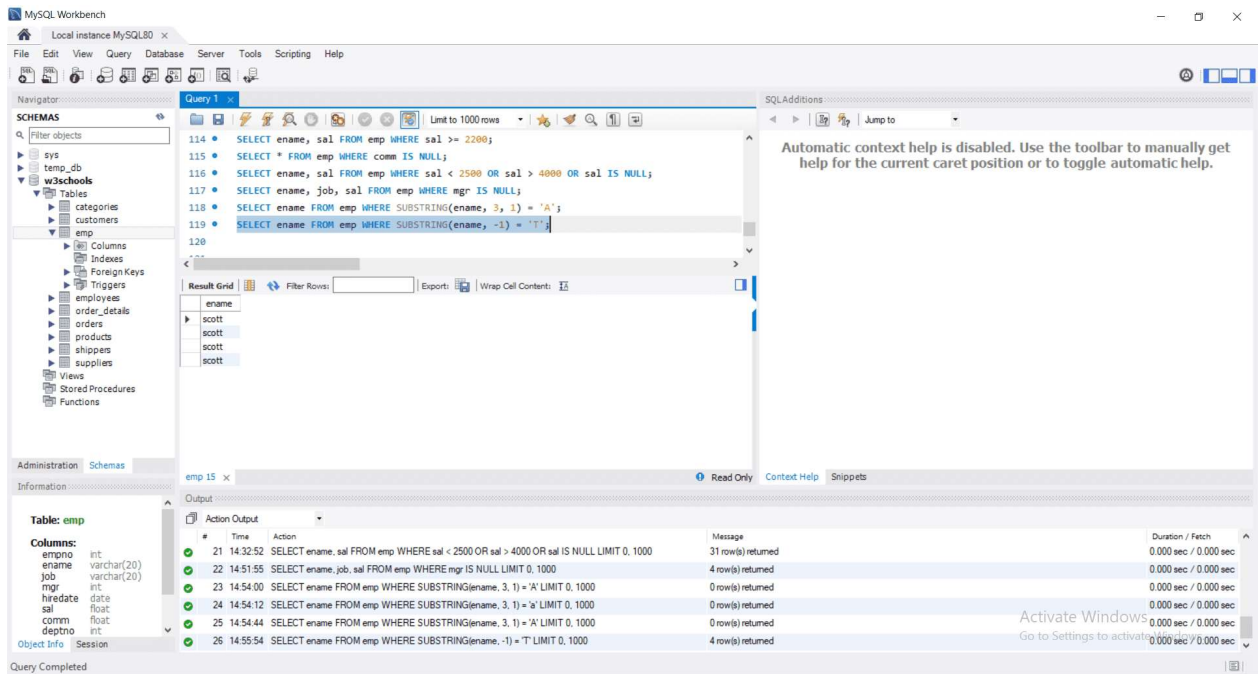
- empno int
- ename varchar(20)
- job varchar(20)
- mgr int
- hiredate date
- sal float
- comm float
- deptno int


Object Info Session

Query Completed

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

Activate Windows Go to Settings to activate Windows





```

31 String[] empNames = {"Jenny", "Jacky", "Joe", "John", "Shameen"};
32 int[] empAges = {25, 30, 20, 40, 25};
33 double[] empSalaries = {10000, 20000, 40000, 80000, 90000};
34
35 for (int i = 0; i < empCodes.length; i++) {
36     preparedStatement.setInt( parameterIndex: 1, empCodes[i]);
37     preparedStatement.setString( parameterIndex: 2, empNames[i]);
38     preparedStatement.setInt( parameterIndex: 3, empAges[i]);
39     preparedStatement.setDouble( parameterIndex: 4, empSalaries[i]);
40
41     // Execute the update
42     preparedStatement.executeUpdate();
43 }
44
45 System.out.println("Table created and data inserted successfully!");
46
47 } catch (SQLException e) {
48     e.printStackTrace();
49 } finally {
50     // Closing resources
51     try {
52         if (preparedStatement != null) preparedStatement.close();
53         if (connection != null) connection.close();
54     } catch (SQLException e) {
55         e.printStackTrace();
56     }
57 }
58 }
59 }

```

Run Main

demo-jdbc > src > Main > main

The screenshot shows an IDE window with a file named `demo-jdbc1.ml` open. The code is a Java program that demonstrates database resource management using a try-finally block. The try block contains the logic to create a table and insert data, while the finally block ensures that the prepared statement and connection are closed, even if an exception occurs. The Run console at the bottom shows the successful execution of the program, outputting "Table created and data inserted successfully!" and "Process finished with exit code 0".

```

49     } finally {
50         // Closing resources
51         try {
52             if (preparedStatement != null) preparedStatement.close();
53             if (connection != null) connection.close();
54         } catch (SQLException e) {
55             e.printStackTrace();
56         }
57     }
58 }
59 }

```

Run Main

```

C:\Users\vyshn\.jdk\openjdk-21.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.5\lib\idea_rt.jar=50439:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.5\bin" -Dfile.encoding=UTF-8
Table created and data inserted successfully!

Process finished with exit code 0

```

demo-jdbc > src > Main > main