

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

Administration Schemas

Departments 1 Courses 2 Students 3 Professors 4 Enrollments 5

Information Output

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
17	10:33:32	INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID) VALUES (1, 1, 101), (2, 2, 102), (3, 3, 201), (4, 4, 301)	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.000 sec
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Object Info Session

22°C Light rain ENG IN 10:35 18-08-2025

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Navigator

Query 1 > SQL File 3*

```

25  CREATE TABLE Students (
26      StudentID INT PRIMARY KEY,
27      Name VARCHAR(100) NOT NULL,
28      Age INT,
29      DepartmentID INT,
30      CourseID INT,
31      FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID),
32      FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
33  );
34
35  -- Create Professors table (DDL: CREATE with Primary + Foreign Key)
36  • CREATE TABLE Professors (

```

Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
5	5	401

Administration Schemas Departments 1 Courses 2 Students 3 Professors 4 Enrollments 5

Information

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Query 1 > SQL File 3*

```

37  ProfessorID INT PRIMARY KEY,
38  Name VARCHAR(100) NOT NULL,
39  DepartmentID INT,
40  Salary DECIMAL(10,2),
41  FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)
42  ;
43
44  -- Create Enrollments table (DDL: CREATE with Primary + Foreign Keys)
45  • CREATE TABLE Enrollments (
46      EnrollmentID INT PRIMARY KEY,
47      StudentID INT,
48      CourseID INT,

```

Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
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Query 1 SQL File 3

```

48     CourseID INT,
49     FOREIGN KEY (StudentID) REFERENCES Students(StudentID),
50     FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
51 );
52
53 -- DDL: ALTER - Add new column
54 • ALTER TABLE Students
55 ADD PhoneNumber VARCHAR(15);
56
57 -- DDL: ALTER - Modify column length
58 • ALTER TABLE Courses
59 MODIFY CourseName VARCHAR(150) NOT NULL;

```

Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
5	5	301

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ENG IN 10:36 18-06-2025

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Query 1 SQL File 3

```

60
61 -- DDL: ALTER - Drop column
62 • ALTER TABLE Professors
63 DROP COLUMN Salary;
64
65 -- Insert sample data into Departments (DML: INSERT)
66 • INSERT INTO Departments (DepartmentID, DepartmentName) VALUES
67 (1, 'Computer Science'),
68 (2, 'Mathematics'),
69 (3, 'Physics');
70
71 -- Insert sample data into Courses (DML: INSERT)

```

Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
5	5	301

Administration Schemas

Departments 1 Courses 2 Students 3 Professors 4 Enrollments 5

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No object selected

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Query 1 > SQL File 3*

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.

```
72 • INSERT INTO Courses (CourseID, CourseName, DepartmentID) VALUES
73   (101, 'Data Structures', 1),
74   (102, 'Algorithms', 1),
75   (201, 'Calculus', 2),
76   (301, 'Quantum Mechanics', 3));
77
78 -- Insert sample data into Students (DML: INSERT)
79 • INSERT INTO Students (StudentID, Name, Age, DepartmentID, CourseID, PhoneNumber) VALUES
80   (1, 'Alice', 20, 1, 101, '9876543210'),
81   (2, 'Bob', 21, 1, 102, '9876500000'),
82   (3, 'Charlie', 19, 2, 201, '9123456789'),
83   (4, 'David', 22, 3, 301, '9988776655');
```

Result Grid | Filter Rows | Edit: | Wrap Cell Contents | Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
*	NULL	NULL

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Information Output

No object selected

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Query 1 > SQL File 3*

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```
84
85 -- Insert sample data into Professors (DML: INSERT)
86 • INSERT INTO Professors (ProfessorID, Name, DepartmentID) VALUES
87   (1, 'Dr. Smith', 1),
88   (2, 'Dr. Johnson', 2),
89   (3, 'Dr. Brown', 3);
90
91 -- Insert sample data into Enrollments (DML: INSERT)
92 • INSERT INTO Enrollments (EnrollmentID, StudentID, CourseID) VALUES
93   (1, 1, 101),
94   (2, 2, 102),
95   (3, 3, 201);
```

Result Grid | Filter Rows | Edit: | Wrap Cell Contents | Result Grid

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
*	NULL	NULL

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```
93  (1, 1, 101),  
94  (2, 2, 102),  
95  (3, 3, 201),  
96  (4, 4, 301);  
97  
98  -- View data (DML: SELECT)  
99  •  SELECT * FROM Departments;  
100 •  SELECT * FROM Courses;  
101 •  SELECT * FROM Students;  
102 •  SELECT * FROM Professors;  
103 •  SELECT * FROM Enrollments;
```

Result Grid Filter Rows

EnrollmentID	StudentID	CourseID
1	1	101
2	2	102
3	3	201
4	4	301
5	5	101
6	6	102

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Search

10:37

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