

MySQL Workbench

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Schema: sakila

Query 1

SQL File 3*

SQL File 4*

hospital management system

Limit to 1000 rows

```
1 create database HospitalManagementSystem;
2 use HospitalManagementSystem;
3 # create table for patients
4 create table patients (
5 PatientID int primary key auto_increment,
6 firstname varchar(30),
7 lastname varchar(30),
8 dateofbirth date,
9 gender varchar(10),
10 phone varchar(15),
11 email varchar(50),
12 address text,
13 emergencycontact varchar(50),
14 bloodgroup varchar(5));
15
```

Result Grid

PatientID	firstname	lastname	dateofbirth	gender	phone	email	address	emergencycontact	bloodgroup
1	ravi	kumar	1985-06-15	Male	9876543210	ravi.doe@gmail.com	123 Main St	john	A+
2	senthil	raja	1990-12-05	Female	9876543211	senthil@yahoo.com	456 gandhi St	selvi	B+
3	shalman	khan	1978-08-20	Male	9876543212	khan@gmail.com	789 2nd St	Sara Khan	O+
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 7 x

Apply

Revert

Context Help

Snippets

SQL script saved to 'C:\Users\ROONAJ\Documents\hospital management system.sql'

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
13 emergencycontact varchar(50),
14 bloodgroup varchar(5));
15
16 # create table for doctors
17 create table doctors(
18 DoctorID int primary key auto_increment,
19 firstname varchar(20),
20 lastname varchar(20),
21 specialty varchar(30),
22 phone varchar(15),
23 email varchar(30),
24 roomnumber varchar(10));
25
26 #create table for appointments
27 create table appointments (
```

Result Grid

PatientID	firstname	lastname	dateofbirth	gender	phone	email	address	emergencycontact	bloodgroup
1	ravi	kumar	1985-06-15	Male	9876543210	ravi.doe@gmail.com	123 Main St	john	A+
2	senthil	raja	1990-12-05	Female	9876543211	senthil@yahoo.com	456 gandhi St	selvi	B+
3	shalman	khan	1978-08-20	Male	9876543212	khan@gmail.com	789 2nd St	Sara Khan	O+
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 7 x

Apply Reset

Context Help Snippets

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
24 roomnumber varchar(10));
25
26 #create table for appointments
27 create table appointments (
28     appointmentid int primary key auto_increment,
29     patientid int,
30     doctorid int,
31     appointmentdate datetime,
32     reason varchar(200),
33     status varchar(50),
34     foreign key (patientid) references patients(patientid),
35     foreign key (doctorid) references doctors(doctorid));
36
37 #create table for medical records
38 create table medicalrecords (
```

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

PatientID	firstname	lastname	dateofbirth	gender	phone	email	address	emergencycontact	bloodgroup
1	ravi	kumar	1985-06-15	Male	9876543210	ravi.doe@gmail.com	123 Main St	john	A+
2	senthil	raja	1990-12-05	Female	9876543211	senthil@yahoo.com	456 gandhi St	selvi	B+
3	shalman	khan	1978-08-20	Male	9876543212	khan@gmail.com	789 2nd St	Sara Khan	O+
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 7 x

Apply Reset Context Help Snippets

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
36
37
38 #create table for medical records
39 create table medicalrecords (
40 recordid int primary key auto_increment,
41 patientid int,
42 doctorid int,
43 visitdate date,
44 diagnosis text,
45 treatment text,
46 prescription text,
47 notes text,
48 foreign key (patientid) references patients(patientid),
49 foreign key (doctorid) references doctors(doctorid));
50
51 #insert value for patients
```

Result Grid

PatientID	firstname	lastname	dateofbirth	gender	phone	email	address	emergencycontact	bloodgroup
1	ravi	kumar	1985-06-15	Male	9876543210	ravi.doe@gmail.com	123 Main St	john	A+
2	senthil	raja	1990-12-05	Female	9876543211	senthil@yahoo.com	456 gandhi St	selvi	B+
3	shalman	khan	1978-08-20	Male	9876543212	khan@gmail.com	789 2nd St	Sara Khan	O+
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 7 x

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Schema: sakila

Query 1

SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
46 notes text,
47 foreign key (patientid) references patients(patientid),
48 foreign key (doctorid) references doctors(doctorid));
49
50 #insert value for patients
51 INSERT INTO Patients (FirstName, LastName, DateOfBirth, Gender, Phone, Email, Address, EmergencyContact, BloodGroup) VALUES
52 ('ravi', 'kumar', '1985-06-15', 'Male', '9876543210', 'ravi.doe@gmail.com', '123 Main St', 'john', 'A+'),
53 ('senthil', 'raja', '1990-12-05', 'Female', '9876543211', 'senthil@yahoo.com', '456 gandhi St', 'selvi', 'B+'),
54 ('shalman', 'Khan', '1978-08-20', 'Male', '9876543212', 'khan@gmail.com', '789 2nd St', 'Sara Khan', 'O+');
55 SELECT * FROM Patients;
56
57 #insert value for doctors
58 INSERT INTO Doctors (FirstName, LastName, Specialty, Phone, Email, RoomNumber) VALUES
59 ('sharma', 'sun', 'Cardiology', '9123456780', 'sharma@hospital.com', '101'),
60 ('Robert', 'Wilson', 'Orthopedics', '9123456781', 'robert.wilson@hospital.com', '102');
```

Result Grid

PatientID	firstname	lastname	dateofbirth	gender	phone	email	address	emergencycontact	bloodgroup
1	ravi	kumar	1985-06-15	Male	9876543210	ravi.doe@gmail.com	123 Main St	john	A+
2	senthil	raja	1990-12-05	Female	9876543211	senthil@yahoo.com	456 gandhi St	selvi	B+
3	shalman	khan	1978-08-20	Male	9876543212	khan@gmail.com	789 2nd St	Sara Khan	O+
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 7 x

Output

SQL script saved to: C:\Users\ROONAJ\Documents\hospital management system.sql

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SQLAdditions

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
49
50 #insert value for patients
51 • INSERT INTO Patients (FirstName, LastName, DateOfBirth, Gender, Phone, Email, Address, EmergencyContact, BloodGroup) VALUES
52 ('ravi', 'kumar', '1985-06-15', 'Male', '9876543210', 'ravi.doe@gmail.com', '123 Main St', 'John', 'A+'),
53 ('senthil', 'raja', '1990-12-05', 'Female', '9876543211', 'senthil@yahoo.com', '456 Gandhi St', 'selvi', 'O+'),
54 ('shalman', 'Khan', '1978-08-20', 'Male', '9876543212', 'khan@gmail.com', '789 2nd St', 'Sara Khan', 'O+');
55 • SELECT * FROM Patients;
56
57 #insert value for doctors
58 • INSERT INTO Doctors (FirstName, LastName, Specialty, Phone, Email, RoomNumber) VALUES
59 ('sharma', 'sun', 'Cardiology', '9123456780', 'sharma@hospital.com', '101'),
60 ('Robert', 'Wilson', 'Orthopedics', '9123456781', 'robert.wilson@hospital.com', '102'),
61 ('Sophia', 'Ragu', 'Pediatrics', '9123456782', 'sophia.ragu@hospital.com', '103');
62 • SELECT * FROM doctors;
63
```

Result Grid

DoctorID	firstname	lastname	specialty	phone	email	roomnumber
1	sharma	sun	Cardiology	9123456780	sharma@hospital.com	101
2	Robert	Wilson	Orthopedics	9123456781	robert.wilson@hospital.com	102
3	Sophia	Ragu	Pediatrics	9123456782	sophia.ragu@hospital.com	103
•	NULL	NULL	NULL	NULL	NULL	NULL

doctors 8 x

Output

Query Completed

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Schema: sakila

Query 1 SQL File 3 SQL File 4 hospital management system

Limit to 1000 rows

```
64 #insert value for appointments
65 INSERT INTO Appointments (PatientID, DoctorID, AppointmentDate, Reason, Status) VALUES
66 (1, 1, '2025-05-15 09:00:00', 'Chest pain', 'Scheduled'),
67 (2, 2, '2025-05-16 11:30:00', 'Knee pain', 'Completed'),
68 (3, 3, '2025-05-17 10:00:00', 'Fever and cough', 'Scheduled'),
69 (1, 1, '2025-05-18 09:30:00', 'Follow-up', 'Scheduled');
70 SELECT * FROM appointments;
71
72 # insert value for medical records
73 INSERT INTO MedicalRecords (PatientID, DoctorID, VisitDate, Diagnosis, Treatment, Prescription, Notes) VALUES
74 (1, 1, '2025-04-20', 'Mild heart issue', 'Rest, monitoring', 'Aspirin', 'Needs echo test next visit'),
75 (2, 2, '2025-04-25', 'Ligament strain', 'Physiotherapy', 'Painkillers', 'Avoid pressure on knee'),
76 (3, 3, '2025-05-01', 'Viral fever', 'Rest and hydration', 'Paracetamol', 'Check if symptoms persist'),
77 (1, 1, '2025-05-01', 'Check-up', 'Continue monitoring', 'None', 'Stable');
78 SELECT * FROM medical records;
```

Result Grid

appointmentid	patientid	doctorid	appointmentdate	reason	status
1	1	1	2025-05-15 09:00:00	Chest pain	Scheduled
2	2	2	2025-05-16 11:30:00	Knee pain	Completed
3	3	3	2025-05-17 10:00:00	Fever and cough	Scheduled
4	1	1	2025-05-18 09:30:00	Follow-up	Scheduled
NULL	NULL	NULL	NULL	NULL	NULL

appointments 9 x

Output

SQLAdditions

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Result Grid

Form Editor

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system*

Limit to 1000 rows

```
72 # insert value for medical records
73 INSERT INTO MedicalRecords (PatientID, DoctorID, VisitDate, Diagnosis, Treatment, Prescription, Notes) VALUES
74 (1, 1, '2025-04-20', 'Mild heart issue', 'Rest, monitoring', 'Aspirin', 'Needs echo test next visit'),
75 (2, 2, '2025-04-25', 'Ligament strain', 'Physiotherapy', 'Painkillers', 'Avoid pressure on knee'),
76 (3, 3, '2025-05-01', 'Viral fever', 'Rest and hydration', 'Paracetamol', 'Check if symptoms persist'),
77 (1, 1, '2025-05-01', 'Check-up', 'Continue monitoring', 'None', 'Stable');
78 SELECT * FROM medicalrecords;
79
80 #Get a list of all appointments with patient and doctor names.
81 SELECT
82     a.AppointmentID,
83     CONCAT(p.FirstName, ' ', p.LastName) AS PatientName,
```

Result Grid

recordid	patientid	doctorid	visitdate	diagnosis	treatment	prescription	notes
1	1	1	2025-04-20	Mild heart issue	Rest, monitoring	Aspirin	Needs echo test next visit
2	2	2	2025-04-25	Ligament strain	Physiotherapy	Painkillers	Avoid pressure on knee
3	3	3	2025-05-01	Viral fever	Rest and hydration	Paracetamol	Check if symptoms persist
4	1	1	2025-05-01	Check-up	Continue monitoring	None	Stable

medicalrecords 15 x

Apply Revert Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	15:07:58	create table medicalrecords (recordid int primary key auto_increment, patientid int, doctorid i...	0 row(s) affected	0.078 sec

Query Completed

Object Info Session

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MySQL Workbench

Local instance MySQL80 x

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system*

Limit to 1000 rows

```
79
80 #Get a list of all appointments with patient and doctor names.
81 • SELECT
82     a.AppointmentID,
83     CONCAT(p.FirstName, ' ', p.LastName) AS PatientName,
84     CONCAT(d.FirstName, ' ', d.LastName) AS DoctorName,
85     a.AppointmentDate,
86     a.Status
87 FROM Appointments a
88 JOIN Patients p ON a.PatientID = p.PatientID
89 JOIN Doctors d ON a.DoctorID = d.DoctorID;
90
91 #Create a view to show the latest medical record for each patient.
```

Result Grid

AppointmentID	PatientName	DoctorName	AppointmentDate	Status
1	ravi kumar	sharma sun	2025-05-15 09:00:00	Scheduled
4	ravi kumar	sharma sun	2025-05-18 09:30:00	Scheduled
2	senthil raja	Robert Wilson	2025-05-16 11:30:00	Completed
3	shalman Khan	Sophia Ragu	2025-05-17 10:00:00	Scheduled

Result: 16 x

Read Only

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Action Output

#	Time	Action	Message	Duration / Fetch
84	15:08:10	SELECT * FROM medicarecords LIMIT 0. 1000	4 row(s) returned	0.000 sec / 0.000 sec

Query Completed

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Feels hotter

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system*

Limit to 1000 rows

```
92 CREATE VIEW LatestMedicalRecords AS
93 SELECT
94     mr.RecordID,
95     mr.PatientID,
96     CONCAT(p.FirstName, ' ', p.LastName) AS PatientName,
97     mr.VisitDate,
98     mr.Diagnosis,
99     mr.Treatment,
100    mr.Prescription
101 FROM MedicalRecords mr
102 JOIN Patients p ON mr.PatientID = p.PatientID
103 WHERE mr.VisitDate = (
104     SELECT MAX(VisitDate)
105     FROM MedicalRecords
106     WHERE PatientID = mr.PatientID
107 );
```

Result Grid

RecordID	PatientID	PatientName	VisitDate	Diagnosis	Treatment	Prescription
4	1	ravi kumar	2025-05-01	Check-up	Continue monitoring	None
2	2	senthil raja	2025-04-25	Ligament strain	Physiotherapy	Painkillers
3	3	shahman Khan	2025-05-01	Viral fever	Rest and hydration	Paracetamol

LatestMedicalRecords 17 x

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Query Completed

Type here to search

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Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system*

Limit to 1000 rows

```
108
109 SELECT * FROM LatestMedicalRecords;
110
111 #find all doctors who have more than 5 appointments scheduled.
112 SELECT
113     d.DoctorID,
114     CONCAT(d.FirstName, ' ', d.LastName) AS DoctorName,
115     (SELECT COUNT(*)
116      FROM Appointments a
117      WHERE a.DoctorID = d.DoctorID AND a.Status = 'Scheduled') AS ScheduledAppointments
118 FROM Doctors d
119 WHERE
120     (SELECT COUNT(*)
121      FROM Appointments a
122      WHERE a.DoctorID = d.DoctorID AND a.Status = 'Scheduled') > 5;
123
```

Result Grid

DoctorID	DoctorName	ScheduledAppointments
1	sharma sun	2

Result 24 x

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Local instance MySQL80 x

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Administration Schemas

Information

Schema: sakila

Query 1 SQL File 3* SQL File 4* hospital management system

Limit to 1000 rows

```
125 #create a stored procedure to count total appointments per doctor.
126 DELIMITER //
127
128 CREATE PROCEDURE GetAppointmentCountPerDoctor()
129 BEGIN
130     SELECT
131         d.DoctorID,
132         CONCAT(d.FirstName, ' ', d.LastName) AS DoctorName,
133         COUNT(a.AppointmentID) AS TotalAppointments
134     FROM Doctors d
135     LEFT JOIN Appointments a ON d.DoctorID = a.DoctorID
136     GROUP BY d.DoctorID;
137 END //
138
139 DELIMITER ;
140 CALL GetAppointmentCountPerDoctor();
```

Result Grid

DoctorID	DoctorName	TotalAppointments
1	sharma sun	2
2	Robert Wilson	1
3	Sophia Ragu	1

Result 26 x

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Query Completed

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Air quality forecast

3:18 PM 5/11/2025