
HOSPITAL
MANAGEMENT SYSTEM

Basic Functionalities of Employee Payroll System:

- **Add New Patient:**
  Allow users to add a new patient record.
- **Add New Doctor:**
  Allow users to add a new doctor to the system.
- **Schedule Appointments:**
  Users can schedule appointments with doctors.
- **Manage Billing:**
  Create bills, track payments, and generate reports for pending bills.
- **Update Patient Information:**
  Modify existing patient data such as contact info or medical history.
- **Track Attendance:**
  Monitor patient appointments, mark completed or cancelled.
- **View Patient History:**
  Retrieve medical history, appointments, and billing details for any patient.

- This query selects and retrieves all the data from the Patients table. The * symbol indicates that all columns should be included in the result, displaying every detail about the registered patients.

- This query is designed to extract the medical history of a specific patient from the Patients table. By using the WHERE clause, it narrows down the result to the patient with patient_id = 1. Only the medical_history column is selected, which means the result will display just the medical history of that patient, without any other details.

- This query retrieves all the information stored in the Doctors table, displaying every column and record for each doctor. The * symbol ensures that all attributes of each doctor (like name, specialty, contact info, etc.) are included in the result.

- This query retrieves a list of all appointments from the Appointments table where the status column is set to 'Scheduled'. It fetches every available column for each appointment (e.g., appointment ID, date, patient, doctor, etc.), but only for those that are marked as scheduled. This is useful for checking upcoming appointments and managing the current schedule.

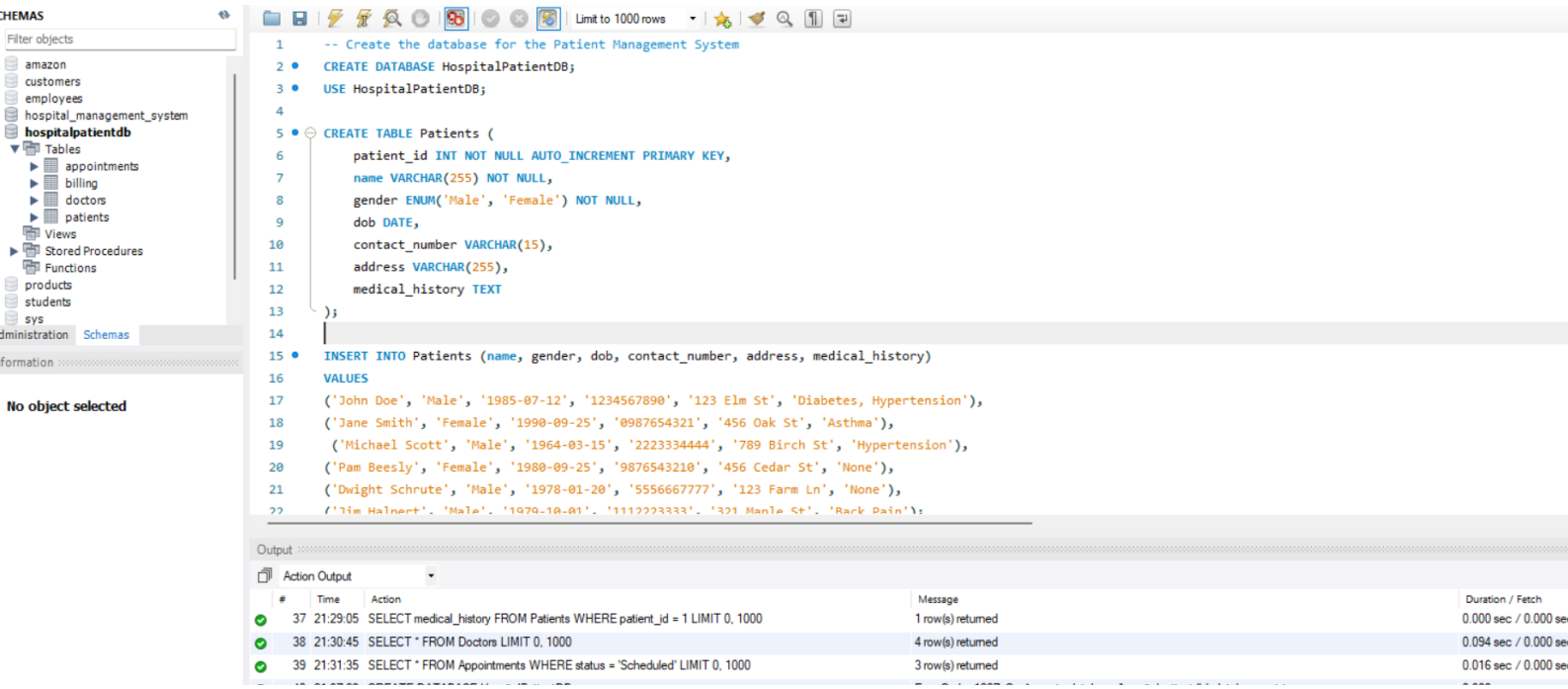
- This query fetches all appointments for the patient whose patient_id is 1. It returns every column related to that patient's appointments, such as appointment date, doctor, status, and any other details stored in the Appointments table.

- This query fetches all appointments for the patient whose patient_id is 1. It returns every column related to that patient's appointments, such as appointment date, doctor, status, and any other details stored in the Appointments table.

- This query retrieves all appointments associated with a specific doctor, identified by the doctor_id of 1. It displays all details of the appointments such as date, time, patient, and appointment status.

- This query updates the status of an appointment in the Appointments table to 'Completed' for the appointment with appointment_id = 1. It is useful for marking an appointment as finished once the doctor has seen the patient. This ensures that records are kept up-to-date with the latest status of appointments.

- This query inserts a new record into the Billing table. It creates a bill for a patient (with patient_id = 1) who was treated by a doctor (doctor_id = 1) on the date '2024-10-18'. The amount of the bill is set at 250.00, and the status of the bill is 'Pending,' indicating that the payment has not been completed yet.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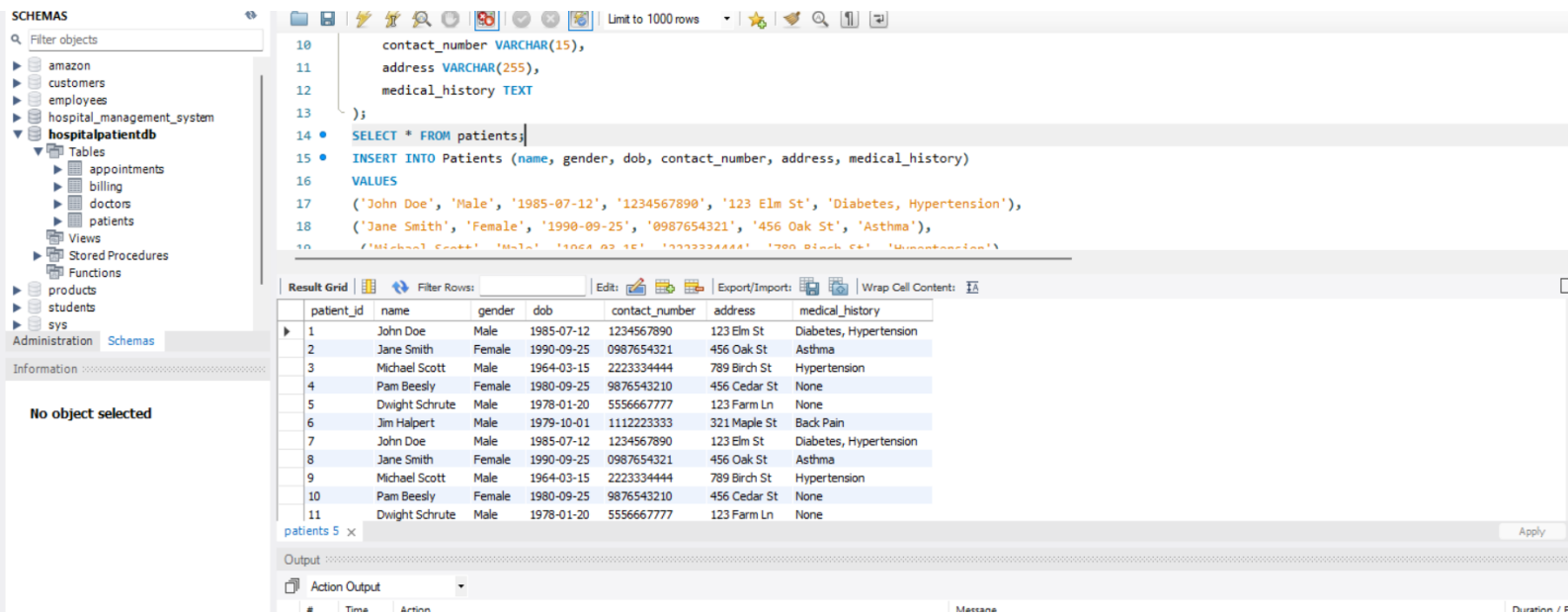
-- Create the database for the Patient Management System
CREATE DATABASE HospitalPatientDB;
USE HospitalPatientDB;
CREATE TABLE Patients (
patient_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(255) NOT NULL,
gender ENUM('Male', 'Female') NOT NULL,
dob DATE,
contact_number VARCHAR(15),
address VARCHAR(255),
medical_history TEXT
);
INSERT INTO Patients (name, gender, dob, contact_number, address, medical_history)
VALUES
('John Doe', 'Male', '1985-07-12', '1234567890', '123 Elm St', 'Diabetes, Hypertension'),
('Jane Smith', 'Female', '1990-09-25', '0987654321', '456 Oak St', 'Asthma'),
('Michael Scott', 'Male', '1964-03-15', '2223334444', '789 Birch St', 'Hypertension'),
('Pam Beesly', 'Female', '1980-09-25', '9876543210', '456 Cedar St', 'None'),
('Dwight Schrute', 'Male', '1978-01-20', '5556667777', '123 Farm Ln', 'None'),
Output
Action Output
Time Action Message Duration / Fetch
37 21:29:05 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.000 se
38 21:30:45 SELECT * FROM Doctors LIMIT 0, 1000 4 row(s) returned 0.094 sec / 0.000 se
39 21:31:35 SELECT * FROM Appointments WHERE status = 'Scheduled' LIMIT 0, 1000 3 row(s) returned 0.016 sec / 0.000 se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Limit to 1000 rows
contact_number VARCHAR(15),
address VARCHAR(255),
medical_history TEXT
);
SELECT * FROM patients;
INSERT INTO Patients (name, gender, dob, contact_number, address, medical_history)
VALUES
('John Doe', 'Male', '1985-07-12', '1234567890', '123 Elm St', 'Diabetes, Hypertension'),
('Jane Smith', 'Female', '1990-09-25', '0987654321', '456 Oak St', 'Asthma'),
Result Grid
Filter Rows:
Edit:
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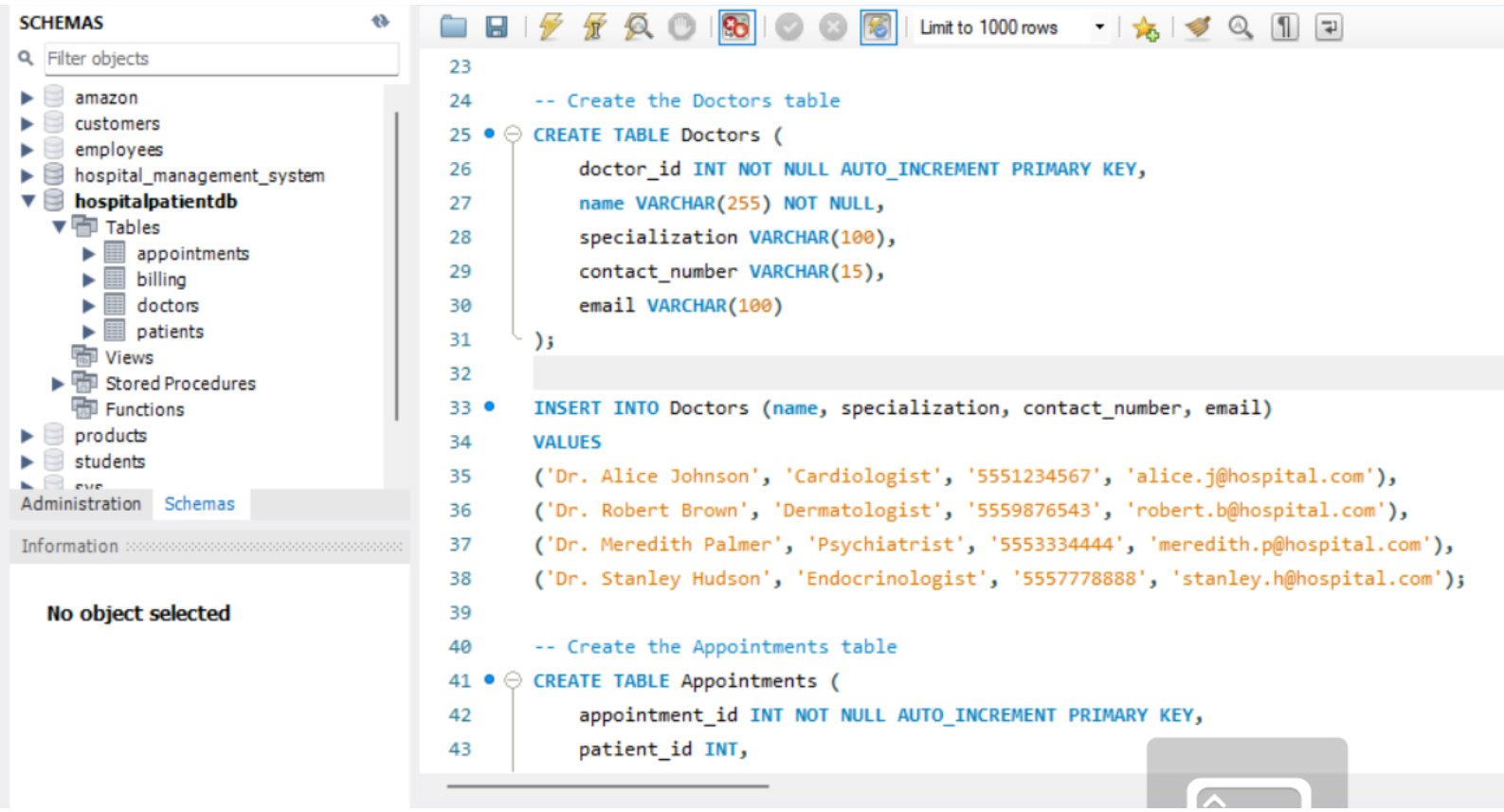
Wrap Cell Content:
patient_id name gender dob contact_number address medical_history
1 John Doe Male 1985-07-12 1234567890 123 Elm St Diabetes, Hypertension
2 Jane Smith Female 1990-09-25 0987654321 456 Oak St Asthma
3 Michael Scott Male 1964-03-15 2223334444 789 Birch St Hypertension
4 Pam Beesly Female 1980-09-25 9876543210 456 Cedar St None
5 Dwight Schrute Male 1978-01-20 5556667777 123 Farm Ln None
6 Jim Halpert Male 1979-10-01 1112223333 321 Maple St Back Pain
7 John Doe Male 1985-07-12 1234567890 123 Elm St Diabetes, Hypertension
8 Jane Smith Female 1990-09-25 0987654321 456 Oak St Asthma
9 Michael Scott Male 1964-03-15 2223334444 789 Birch St Hypertension
10 Pam Beesly Female 1980-09-25 9876543210 456 Cedar St None
11 Dwight Schrute Male 1978-01-20 5556667777 123 Farm Ln None
patients 5
Apply
Output
Action Output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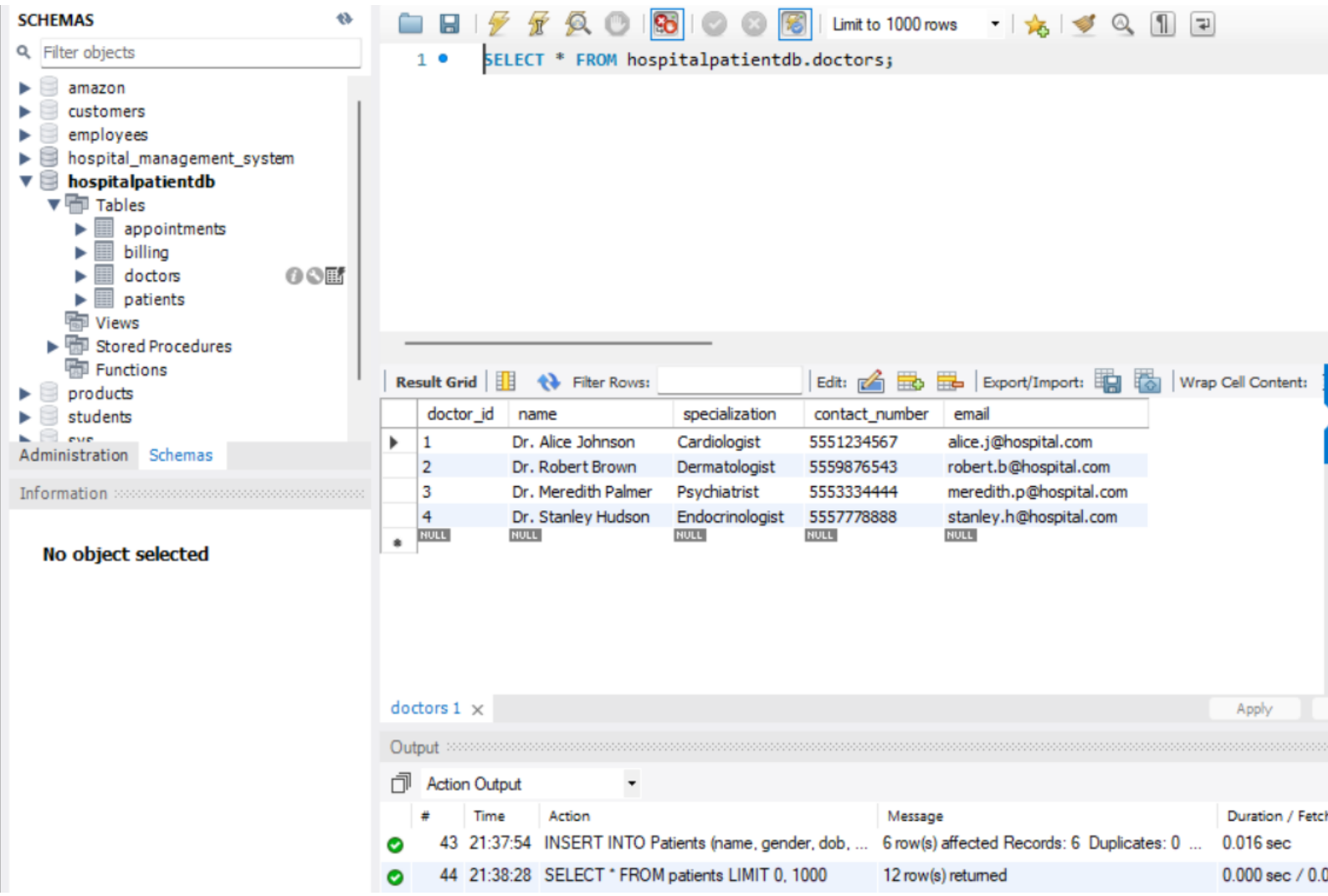
Information
No object selected
Limit to 1000 rows
23
24 -- Create the Doctors table
25 CREATE TABLE Doctors (
26 doctor_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
27 name VARCHAR(255) NOT NULL,
28 specialization VARCHAR(100),
29 contact_number VARCHAR(15),
30 email VARCHAR(100)
31);
32
33 INSERT INTO Doctors (name, specialization, contact_number, email)
34 VALUES
35 ('Dr. Alice Johnson', 'Cardiologist', '5551234567', 'alice.j@hospital.com'),
36 ('Dr. Robert Brown', 'Dermatologist', '5559876543', 'robert.b@hospital.com'),
37 ('Dr. Meredith Palmer', 'Psychiatrist', '5553334444', 'meredith.p@hospital.com'),
38 ('Dr. Stanley Hudson', 'Endocrinologist', '5557778888', 'stanley.h@hospital.com');
39
40 -- Create the Appointments table
41 CREATE TABLE Appointments (
42 appointment_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
43 patient_id INT,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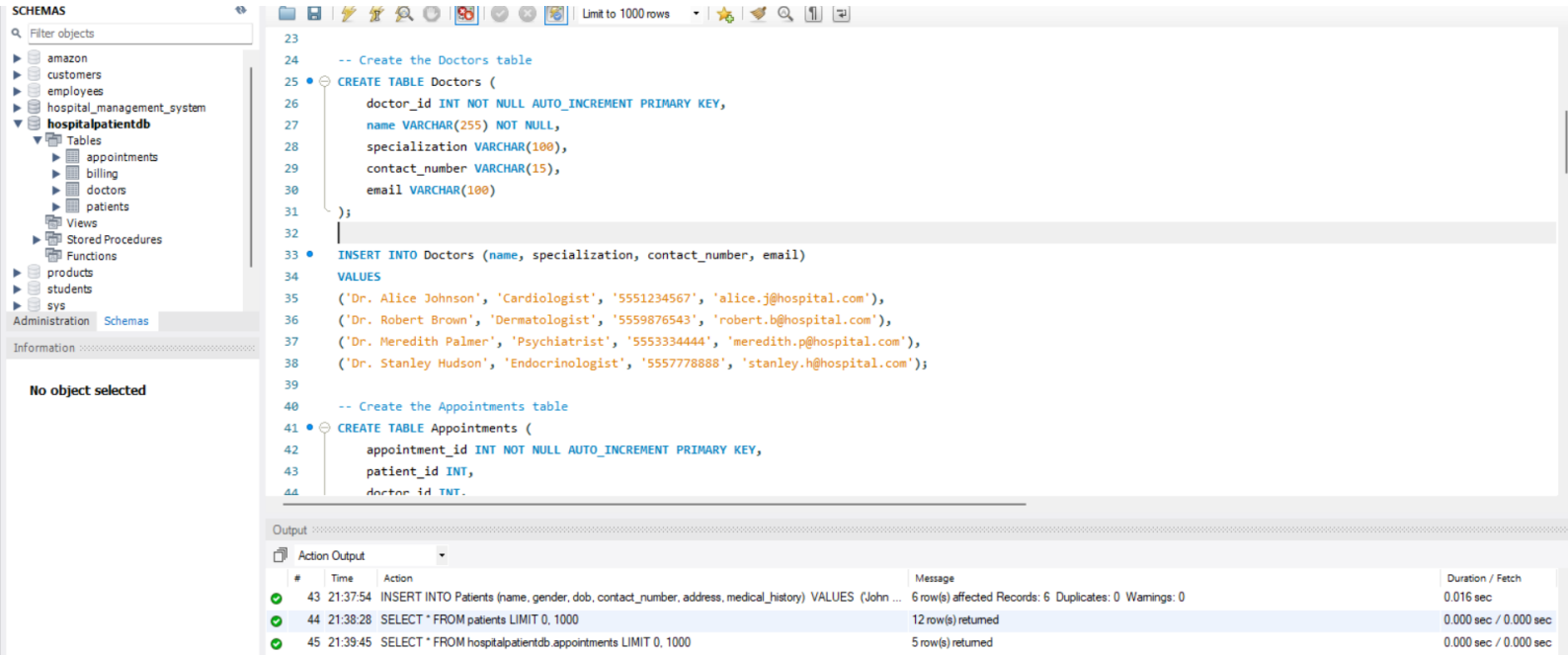
Schemas
Information
No object selected
Limit to 1000 rows
1 SELECT * FROM hospitalpatientdb.doctors;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
doctor_id | name | specialization | contact_number | email
1 | Dr. Alice Johnson | Cardiologist | 5551234567 | alice.j@hospital.com
2 | Dr. Robert Brown | Dermatologist | 5559876543 | robert.b@hospital.com
3 | Dr. Meredith Palmer | Psychiatrist | 5553334444 | meredith.p@hospital.com
4 | Dr. Stanley Hudson | Endocrinologist | 5557778888 | stanley.h@hospital.com
doctors 1
Apply
Output
Action Output
| Time | Action | Message | Duration / Fetch
43 | 21:37:54 | INSERT INTO Patients (name, gender, dob, ... | 6 row(s) affected Records: 6 Duplicates: 0 ... | 0.016 sec
44 | 21:38:28 | SELECT * FROM patients LIMIT 0, 1000 | 12 row(s) returned | 0.000 sec / 0.0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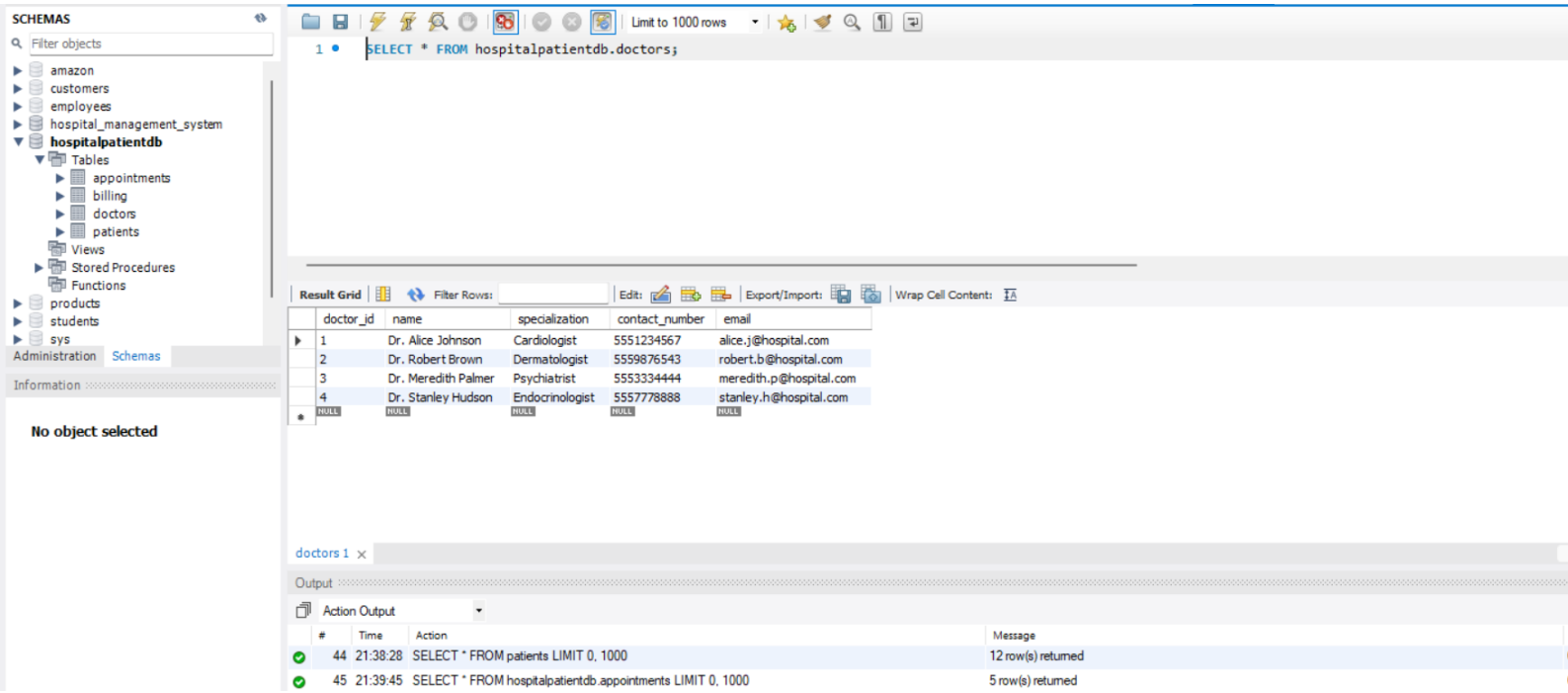
Information
No object selected
Limit to 1000 rows
-- Create the Doctors table
CREATE TABLE Doctors (
doctor_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(255) NOT NULL,
specialization VARCHAR(100),
contact_number VARCHAR(15),
email VARCHAR(100)
);
INSERT INTO Doctors (name, specialization, contact_number, email)
VALUES
('Dr. Alice Johnson', 'Cardiologist', '5551234567', 'alice.j@hospital.com'),
('Dr. Robert Brown', 'Dermatologist', '5559876543', 'robert.b@hospital.com'),
('Dr. Meredith Palmer', 'Psychiatrist', '5553334444', 'meredith.p@hospital.com'),
('Dr. Stanley Hudson', 'Endocrinologist', '5557778888', 'stanley.h@hospital.com');
-- Create the Appointments table
CREATE TABLE Appointments (
appointment_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
patient_id INT,
doctor_id INT,
Output
Action Output
Time Action Message Duration / Fetch
43 21:37:54 INSERT INTO Patients (name, gender, dob, contact_number, address, medical_history) VALUES ('John ... 6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0 0.016 sec
44 21:38:28 SELECT * FROM patients LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.000 sec
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec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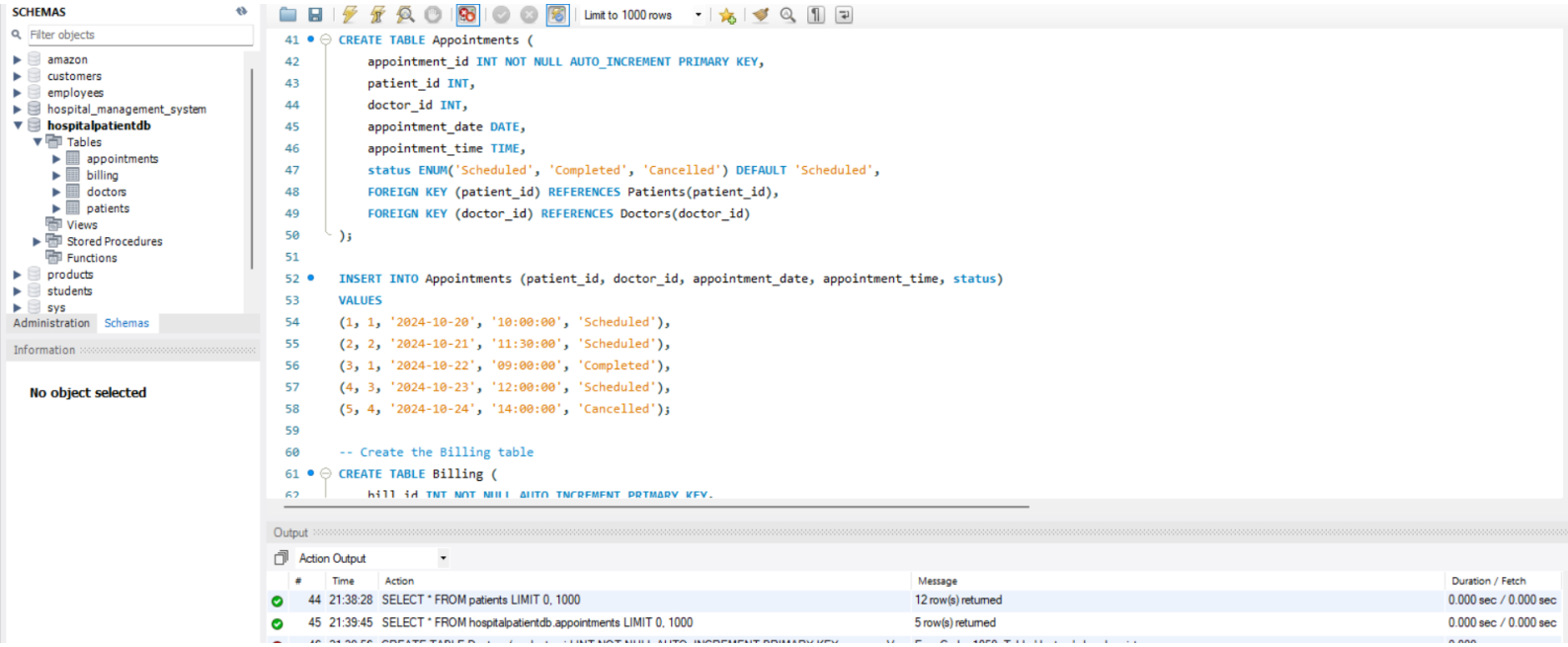
Information
No object selected
Limit to 1000 rows
1 SELECT * FROM hospitalpatientdb.doctors;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
doctor_id name specialization contact_number email
1 Dr. Alice Johnson Cardiologist 5551234567 alice.j@hospital.com
2 Dr. Robert Brown Dermatologist 5559876543 robert.b@hospital.com
3 Dr. Meredith Palmer Psychiatrist 5553334444 meredith.p@hospital.com
4 Dr. Stanley Hudson Endocrinologist 5557778888 stanley.h@hospital.com
doctors 1
Output
Action Output
Time Action Message
44 21:38:28 SELECT * FROM patients LIMIT 0, 1000 12 row(s) returned
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned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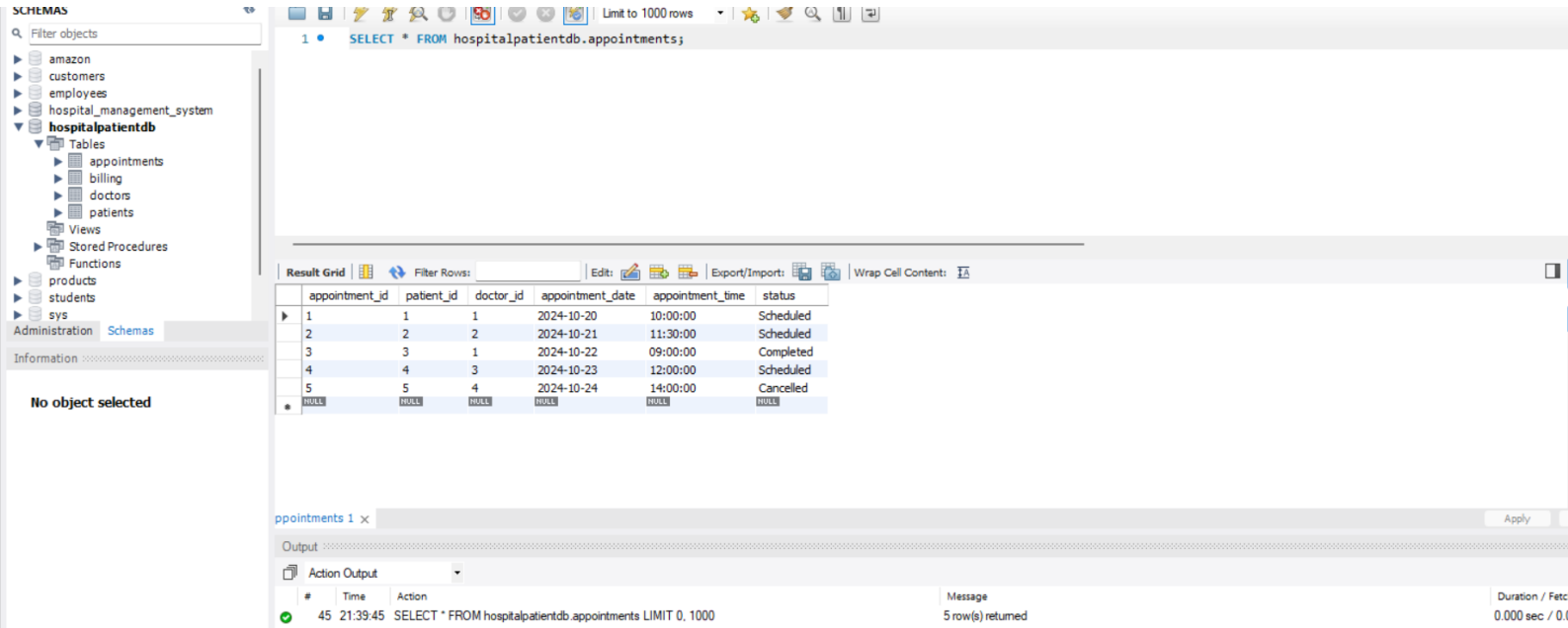
Information
No object selected
Limit to 1000 rows
41 CREATE TABLE Appointments (
42 appointment_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
43 patient_id INT,
44 doctor_id INT,
45 appointment_date DATE,
46 appointment_time TIME,
47 status ENUM('Scheduled', 'Completed', 'Cancelled') DEFAULT 'Scheduled',
48 FOREIGN KEY (patient_id) REFERENCES Patients(patient_id),
49 FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id)
50);
51
52 INSERT INTO Appointments (patient_id, doctor_id, appointment_date, appointment_time, status)
53 VALUES
54 (1, 1, '2024-10-20', '10:00:00', 'Scheduled'),
55 (2, 2, '2024-10-21', '11:30:00', 'Scheduled'),
56 (3, 1, '2024-10-22', '09:00:00', 'Completed'),
57 (4, 3, '2024-10-23', '12:00:00', 'Scheduled'),
58 (5, 4, '2024-10-24', '14:00:00', 'Cancelled');
59
60 -- Create the Billing table
61 CREATE TABLE Billing (
Output
Action Output
Time Action Message Duration / Fetch
44 21:38:28 SELECT * FROM patients LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.000 sec
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec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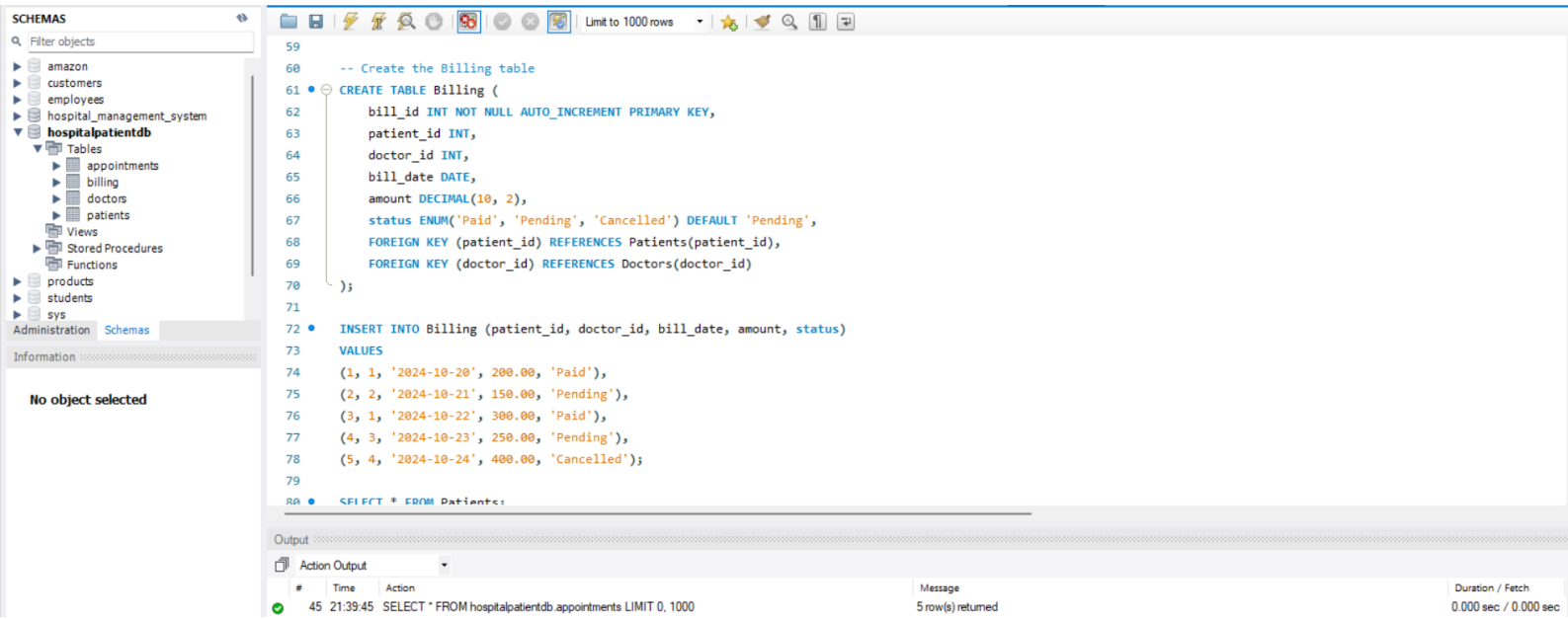
Information
No object selected
Limit to 1000 rows
1 • SELECT * FROM hospitalpatientdb.appointments;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
appointment_id patient_id doctor_id appointment_date appointment_time status
1 1 1 2024-10-20 10:00:00 Scheduled
2 2 2 2024-10-21 11:30:00 Scheduled
3 3 1 2024-10-22 09:00:00 Completed
4 4 3 2024-10-23 12:00:00 Scheduled
5 5 4 2024-10-24 14:00:00 Cancelled
NULL NULL NULL NULL NULL NULL
ppointments 1
Apply
Output
Action Output
Time Action Message Duration / Fetc
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.0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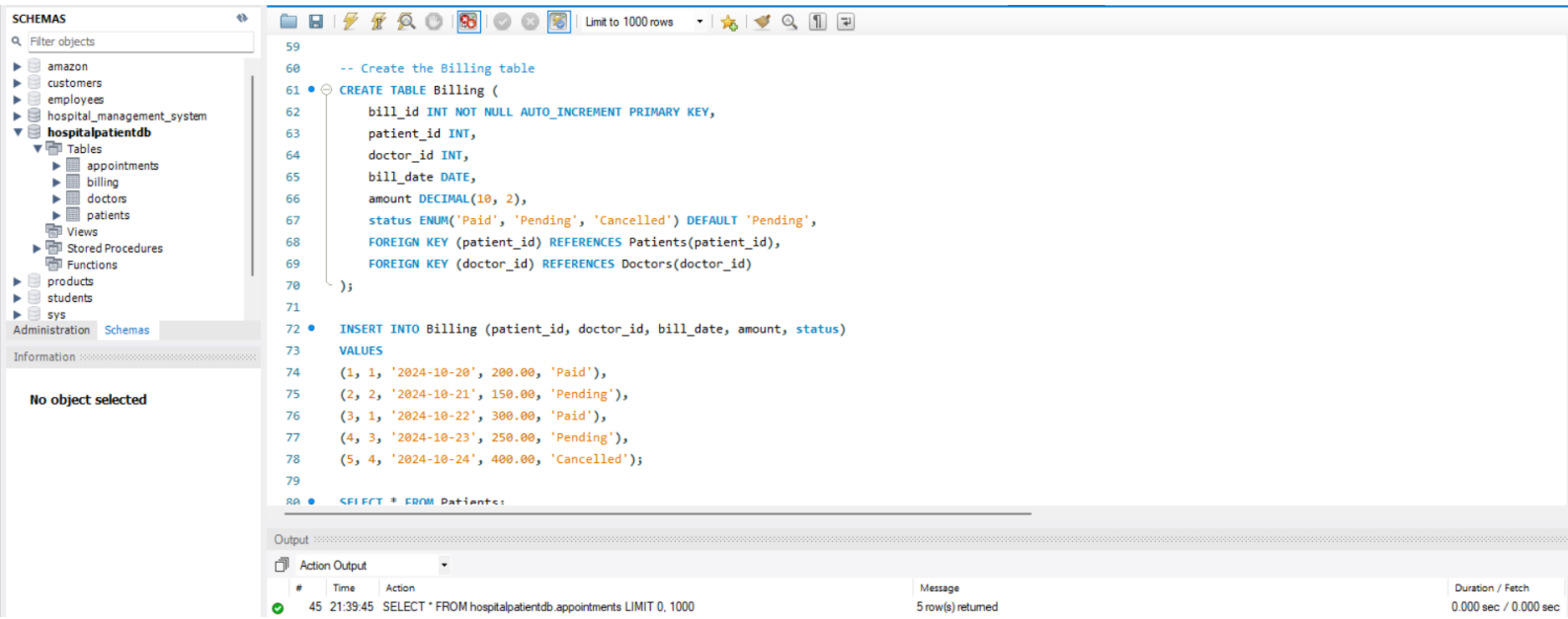
No object selected
Limit to 1000 rows
59
60 -- Create the Billing table
61 CREATE TABLE Billing (
62 bill_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
63 patient_id INT,
64 doctor_id INT,
65 bill_date DATE,
66 amount DECIMAL(10, 2),
67 status ENUM('Paid', 'Pending', 'Cancelled') DEFAULT 'Pending',
68 FOREIGN KEY (patient_id) REFERENCES Patients(patient_id),
69 FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id)
70);
71
72 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status)
73 VALUES
74 (1, 1, '2024-10-20', 200.00, 'Paid'),
75 (2, 2, '2024-10-21', 150.00, 'Pending'),
76 (3, 1, '2024-10-22', 300.00, 'Paid'),
77 (4, 3, '2024-10-23', 250.00, 'Pending'),
78 (5, 4, '2024-10-24', 400.00, 'Cancelled');
79
80 SELECT * FROM Patients;
Output
Action Output
Time Action Message Duration / Fetch
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec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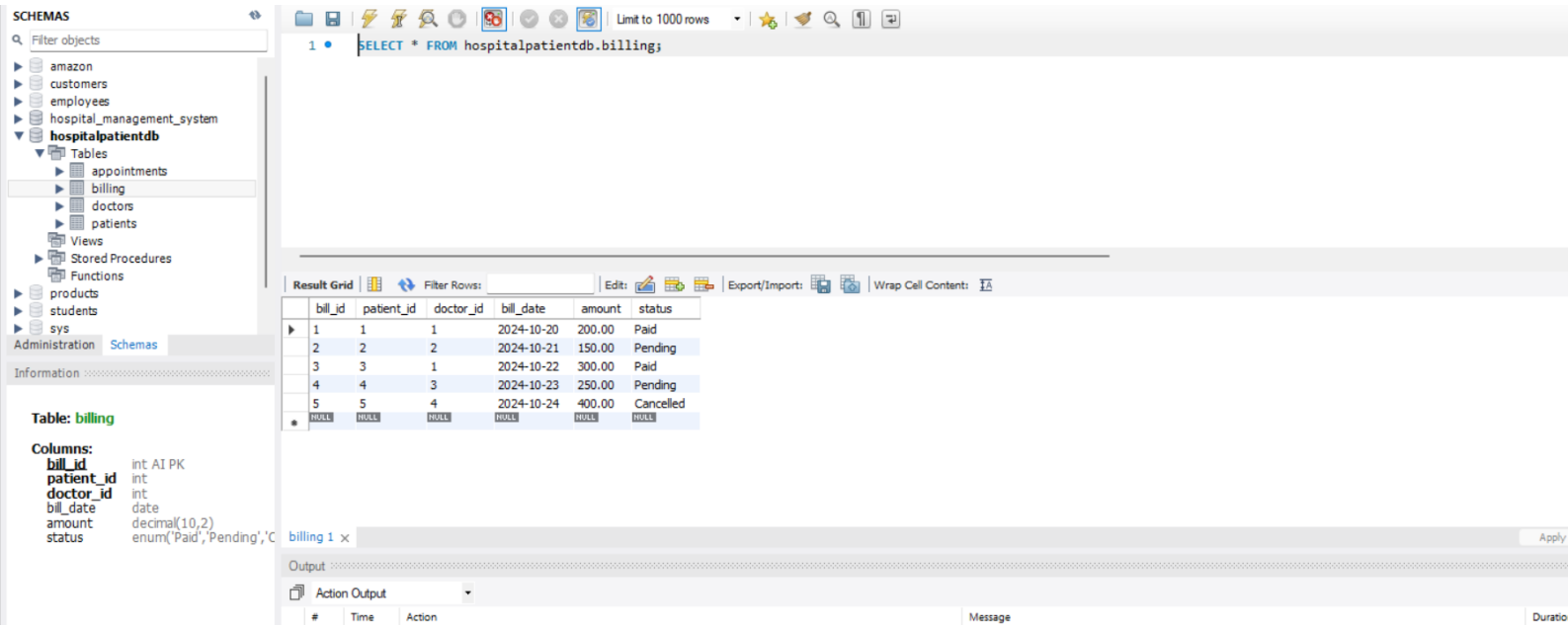
No object selected
Limit to 1000 rows
59
60 -- Create the Billing table
61 CREATE TABLE Billing (
62 bill_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
63 patient_id INT,
64 doctor_id INT,
65 bill_date DATE,
66 amount DECIMAL(10, 2),
67 status ENUM('Paid', 'Pending', 'Cancelled') DEFAULT 'Pending',
68 FOREIGN KEY (patient_id) REFERENCES Patients(patient_id),
69 FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id)
70);
71
72 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status)
73 VALUES
74 (1, 1, '2024-10-20', 200.00, 'Paid'),
75 (2, 2, '2024-10-21', 150.00, 'Pending'),
76 (3, 1, '2024-10-22', 300.00, 'Paid'),
77 (4, 3, '2024-10-23', 250.00, 'Pending'),
78 (5, 4, '2024-10-24', 400.00, 'Cancelled');
79
80 SELECT * FROM Patients;
Output
Action Output
Time Action Message Duration / Fetch
45 21:39:45 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec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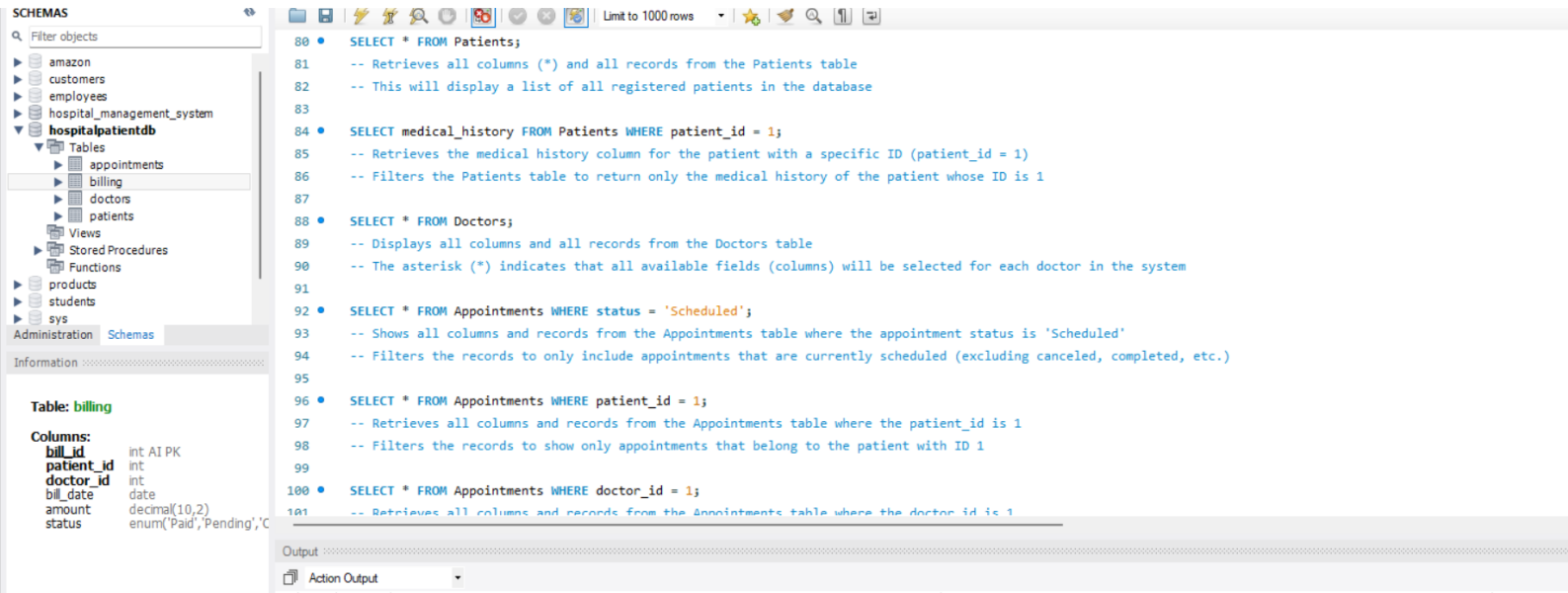
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Limit to 1000 rows
1 SELECT * FROM hospitalpatientdb.billing;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
bill_id patient_id doctor_id bill_date amount status
1 1 1 2024-10-20 200.00 Paid
2 2 2 2024-10-21 150.00 Pending
3 3 1 2024-10-22 300.00 Paid
4 4 3 2024-10-23 250.00 Pending
5 5 4 2024-10-24 400.00 Cancelled
billing 1
Apply
Output
Action Output
Time Action Message Duratio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Views
Stored Procedures
Functions
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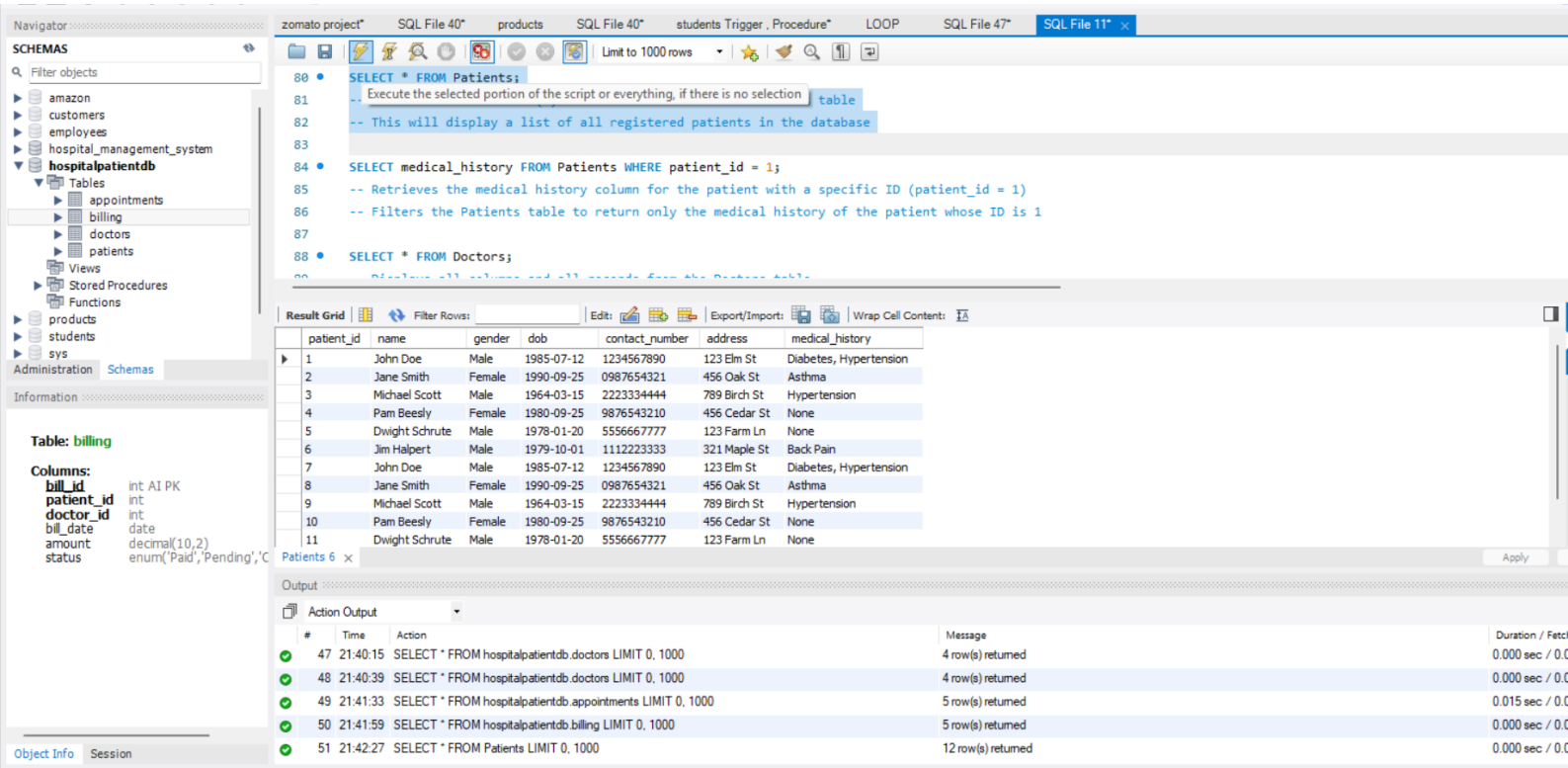
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Limit to 1000 rows
80 SELECT * FROM Patients;
81 -- Retrieves all columns (*) and all records from the Patients table
82 -- This will display a list of all registered patients in the database
83
84 SELECT medical_history FROM Patients WHERE patient_id = 1;
85 -- Retrieves the medical history column for the patient with a specific ID (patient_id = 1)
86 -- Filters the Patients table to return only the medical history of the patient whose ID is 1
87
88 SELECT * FROM Doctors;
89 -- Displays all columns and all records from the Doctors table
90 -- The asterisk (*) indicates that all available fields (columns) will be selected for each doctor in the system
91
92 SELECT * FROM Appointments WHERE status = 'Scheduled';
93 -- Shows all columns and records from the Appointments table where the appointment status is 'Scheduled'
94 -- Filters the records to only include appointments that are currently scheduled (excluding canceled, completed, etc.)
95
96 SELECT * FROM Appointments WHERE patient_id = 1;
97 -- Retrieves all columns and records from the Appointments table where the patient_id is 1
98 -- Filters the records to show only appointments that belong to the patient with ID 1
99
100 SELECT * FROM Appointments WHERE doctor_id = 1;
Output
Action Output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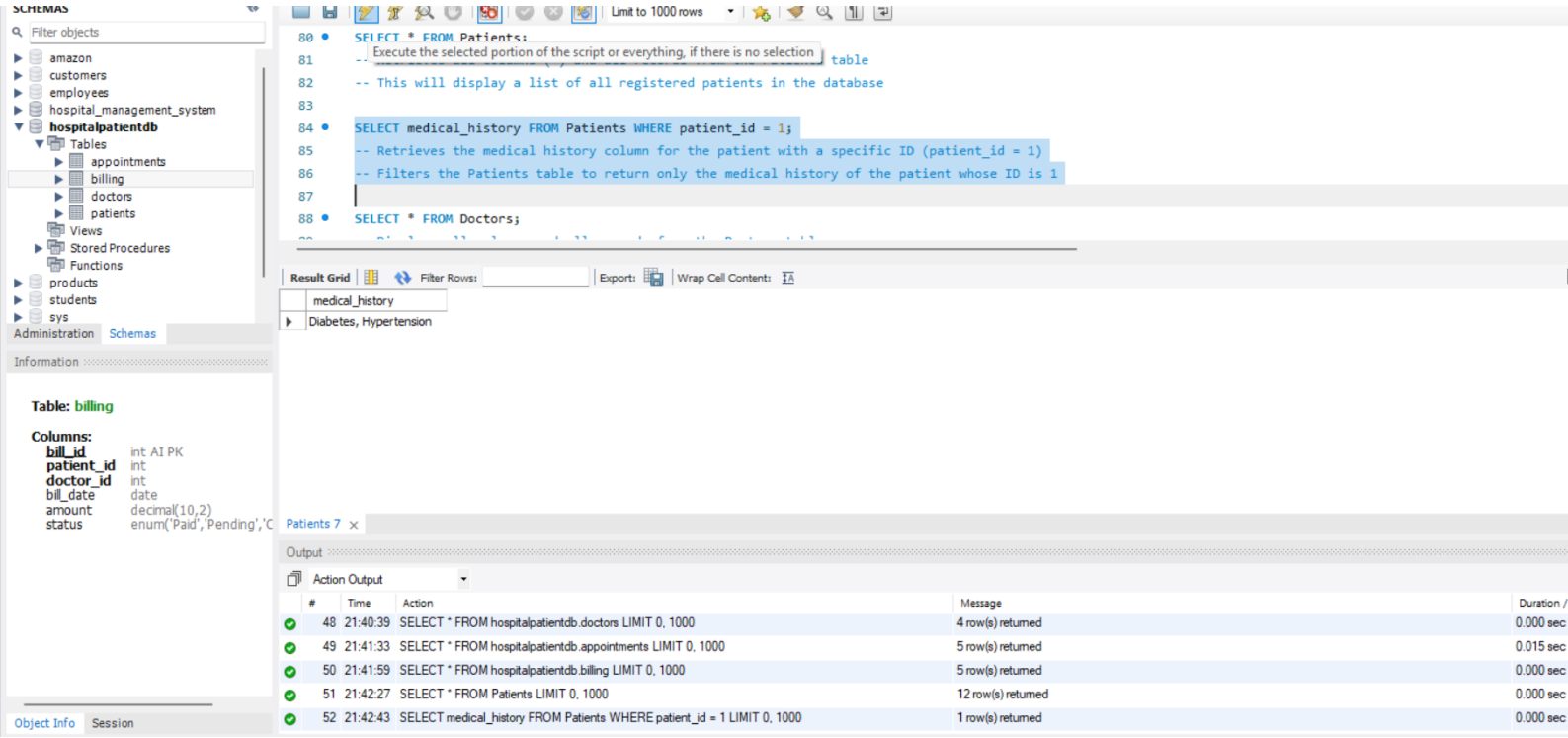
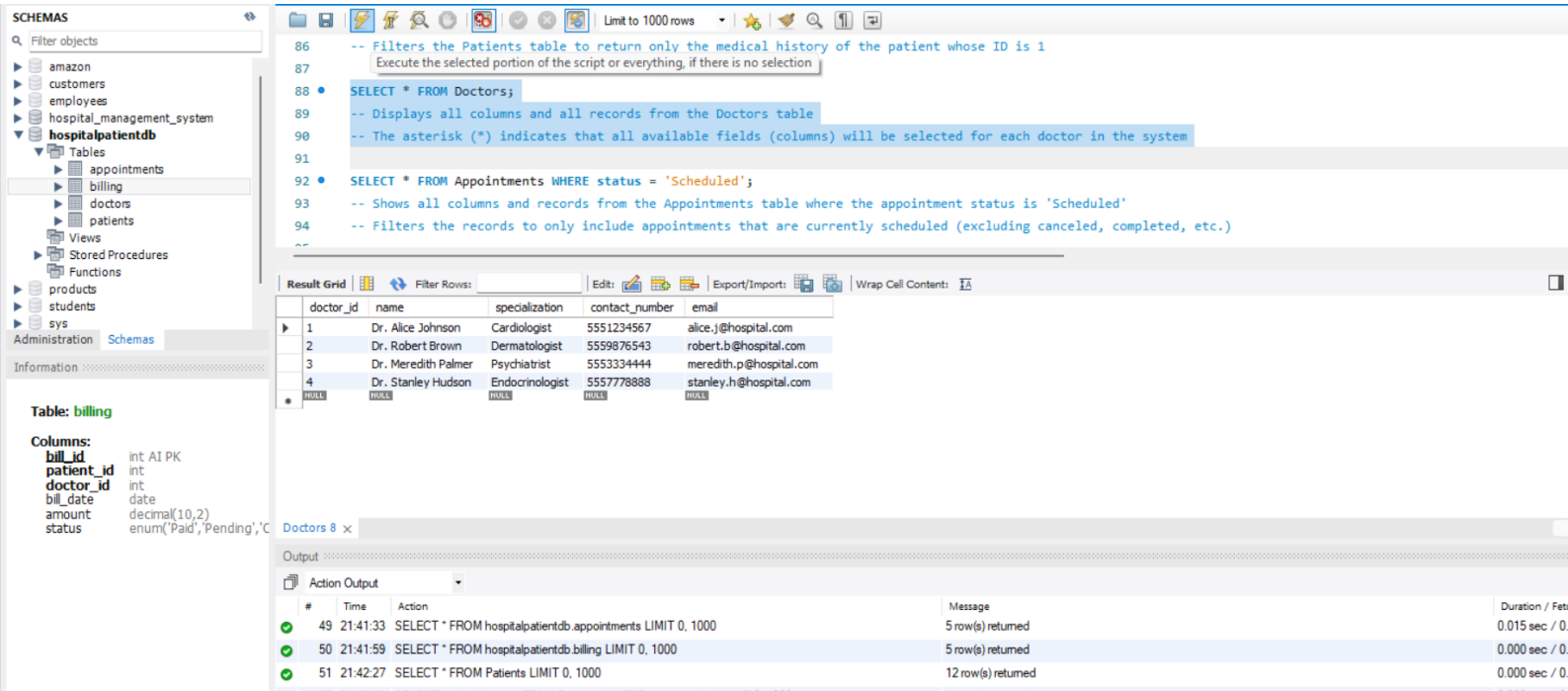
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
zomato project*
SQL File 40*
products
SQL File 40*
students Trigger , Procedure*
LOOP
SQL File 47*
SQL File 11*
Limit to 1000 rows
80 SELECT * FROM Patients;
Execute the selected portion of the script or everything, if there is no selection
81 -- table
82 -- This will display a list of all registered patients in the database
83
84 SELECT medical_history FROM Patients WHERE patient_id = 1;
85 -- Retrieves the medical history column for the patient with a specific ID (patient_id = 1)
86 -- Filters the Patients table to return only the medical history of the patient whose ID is 1
87
88 SELECT * FROM Doctors;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
patient_id name gender dob contact_number address medical_history
1 John Doe Male 1985-07-12 1234567890 123 Elm St Diabetes, Hypertension
2 Jane Smith Female 1990-09-25 0987654321 456 Oak St Asthma
3 Michael Scott Male 1964-03-15 2223334444 789 Birch St Hypertension
4 Pam Beesly Female 1980-09-25 9876543210 456 Cedar St None
5 Dwight Schrute Male 1978-01-20 5556667777 123 Farm Ln None
6 Jim Halpert Male 1979-10-01 1112223333 321 Maple St Back Pain
7 John Doe Male 1985-07-12 1234567890 123 Elm St Diabetes, Hypertension
8 Jane Smith Female 1990-09-25 0987654321 456 Oak St Asthma
9 Michael Scott Male 1964-03-15 2223334444 789 Birch St Hypertension
10 Pam Beesly Female 1980-09-25 9876543210 456 Cedar St None
11 Dwight Schrute Male 1978-01-20 5556667777 123 Farm Ln None
Patients 6
Apply
Output
Action Output
Time Action Message Duration / Fetch
47 21:40:15 SELECT * FROM hospitalpatientdb.doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.0
48 21:40:39 SELECT * FROM hospitalpatientdb.doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.0
49 21:41:33 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.015 sec / 0.0
50 21:41:59 SELECT * FROM hospitalpatientdb.billing LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.0
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.0


SCHEMAS
Filter objects
amazon
customers
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
Execute the selected portion of the script or everything, if there is no selection
80 SELECT * FROM Patients;
81 -- table
82 -- This will display a list of all registered patients in the database
83
84 SELECT medical_history FROM Patients WHERE patient_id = 1;
85 -- Retrieves the medical history column for the patient with a specific ID (patient_id = 1)
86 -- Filters the Patients table to return only the medical history of the patient whose ID is 1
87
88 SELECT * FROM Doctors;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
medical_history
Diabetes, Hypertension
Patients 7
Output
Action Output
Time Action Message Duration /
48 21:40:39 SELECT * FROM hospitalpatientdb.doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec
49 21:41:33 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.015 sec
50 21:41:59 SELECT * FROM hospitalpatientdb.billing LIMIT 0, 1000 5 row(s) returned 0.000 sec
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 sec
52 21:42:43 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec


SCHEMAS
Filter objects
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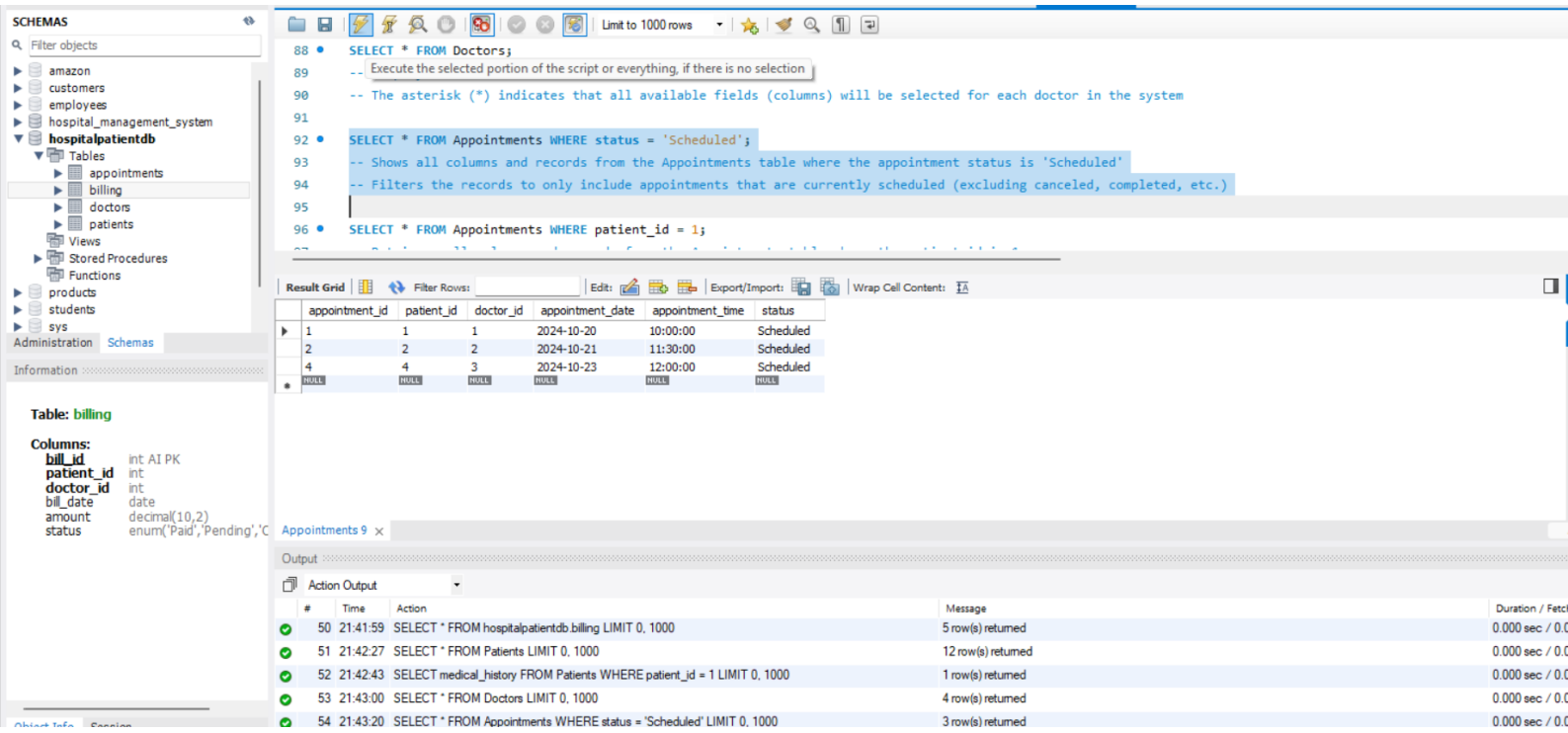
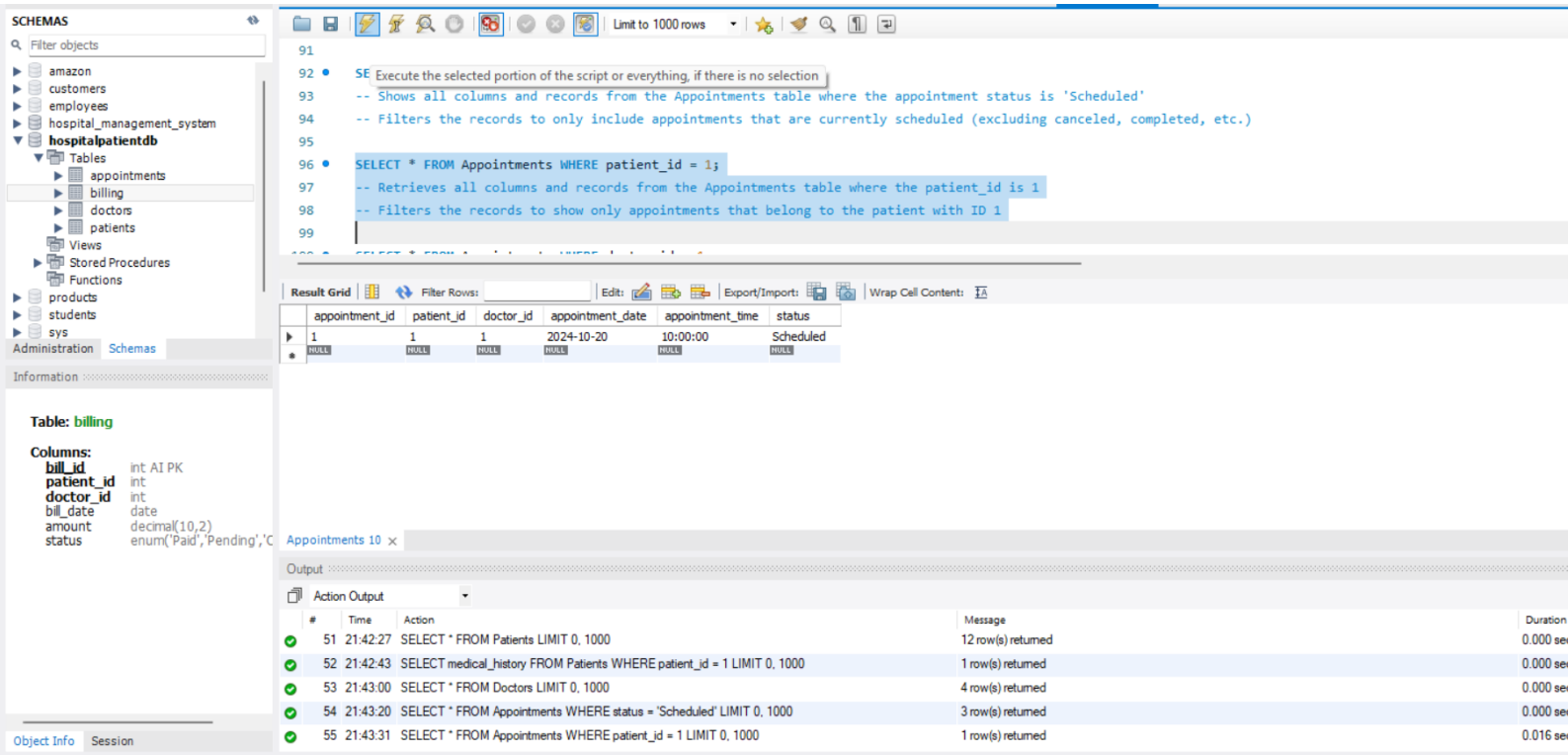
customers
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
-- Filters the Patients table to return only the medical history of the patient whose ID is 1
Execute the selected portion of the script or everything, if there is no selection
SELECT * FROM Doctors;
-- Displays all columns and all records from the Doctors table
-- The asterisk (*) indicates that all available fields (columns) will be selected for each doctor in the system
SELECT * FROM Appointments WHERE status = 'Scheduled';
-- Shows all columns and records from the Appointments table where the appointment status is 'Scheduled'
-- Filters the records to only include appointments that are currently scheduled (excluding canceled, completed, etc.)
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
doctor_id name specialization contact_number email
1 Dr. Alice Johnson Cardiologist 5551234567 alice.j@hospital.com
2 Dr. Robert Brown Dermatologist 5559876543 robert.b@hospital.com
3 Dr. Meredith Palmer Psychiatrist 5553334444 meredith.p@hospital.com
4 Dr. Stanley Hudson Endocrinologist 5557778888 stanley.h@hospital.com
Doctors 8
Output
Action Output
Time Action Message Duration / Fet
49 21:41:33 SELECT * FROM hospitalpatientdb.appointments LIMIT 0, 1000 5 row(s) returned 0.015 sec / 0.
50 21:41:59 SELECT * FROM hospitalpatientdb.billing LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.
52 21:42:43 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.
53 21:43:00 SELECT * FROM Doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.


SCHEMAS
Filter objects
amazon
customers
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Limit to 1000 rows
88 SELECT * FROM Doctors;
89 --
Execute the selected portion of the script or everything, if there is no selection
90 -- The asterisk (*) indicates that all available fields (columns) will be selected for each doctor in the system
91
92 SELECT * FROM Appointments WHERE status = 'Scheduled';
93 -- Shows all columns and records from the Appointments table where the appointment status is 'Scheduled'
94 -- Filters the records to only include appointments that are currently scheduled (excluding canceled, completed, etc.)
95
96 SELECT * FROM Appointments WHERE patient_id = 1;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
appointment_id patient_id doctor_id appointment_date appointment_time status
1 1 1 2024-10-20 10:00:00 Scheduled
2 2 2 2024-10-21 11:30:00 Scheduled
4 4 3 2024-10-23 12:00:00 Scheduled
NULL NULL NULL NULL NULL NULL
Appointments 9
Output
Action Output
Time Action Message Duration / Fetch
50 21:41:59 SELECT * FROM hospitalpatientdb.billing LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.0
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 sec / 0.0
52 21:42:43 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.0
53 21:43:00 SELECT * FROM Doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.0
54 21:43:20 SELECT * FROM Appointments WHERE status = 'Scheduled' LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.0


SCHEMAS
Filter objects
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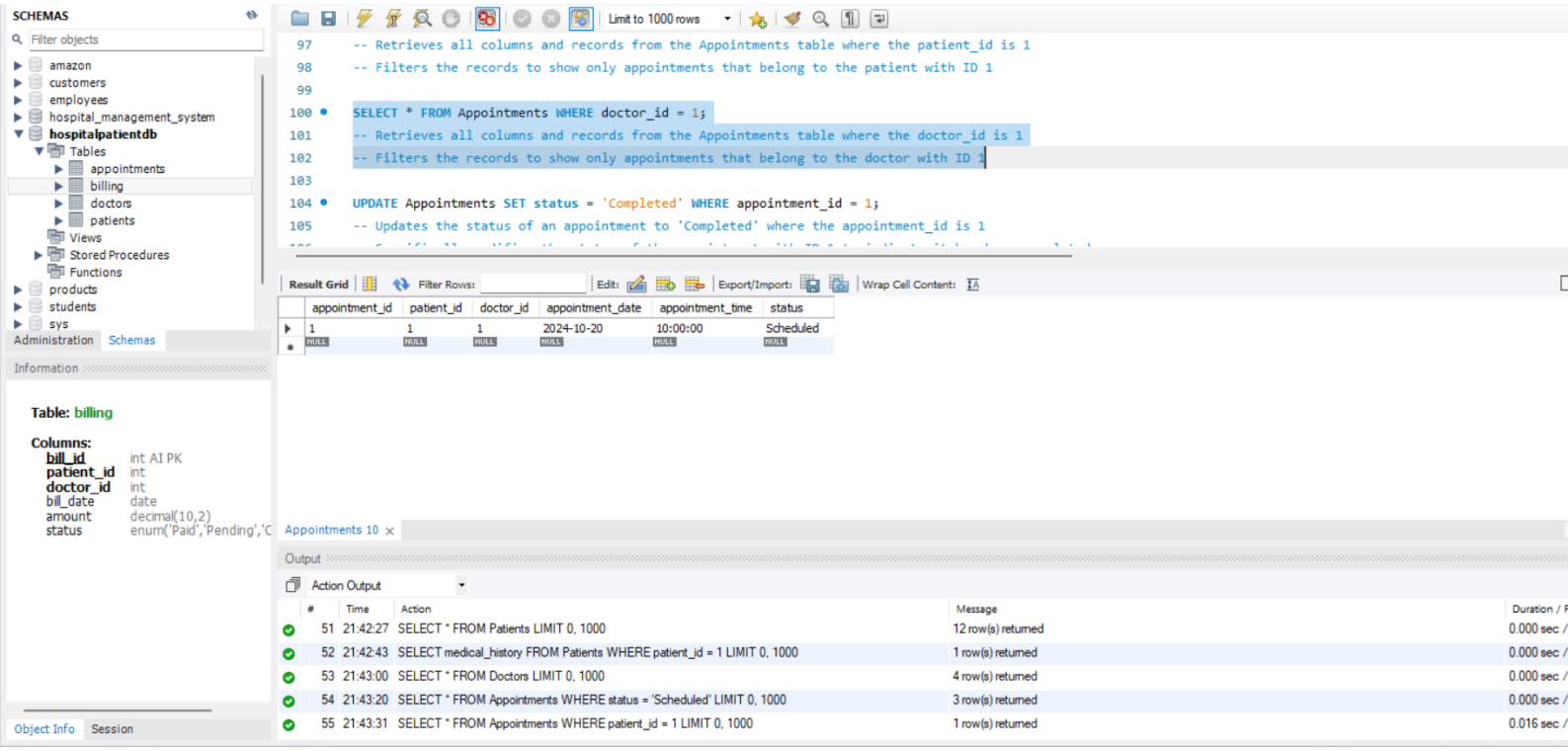
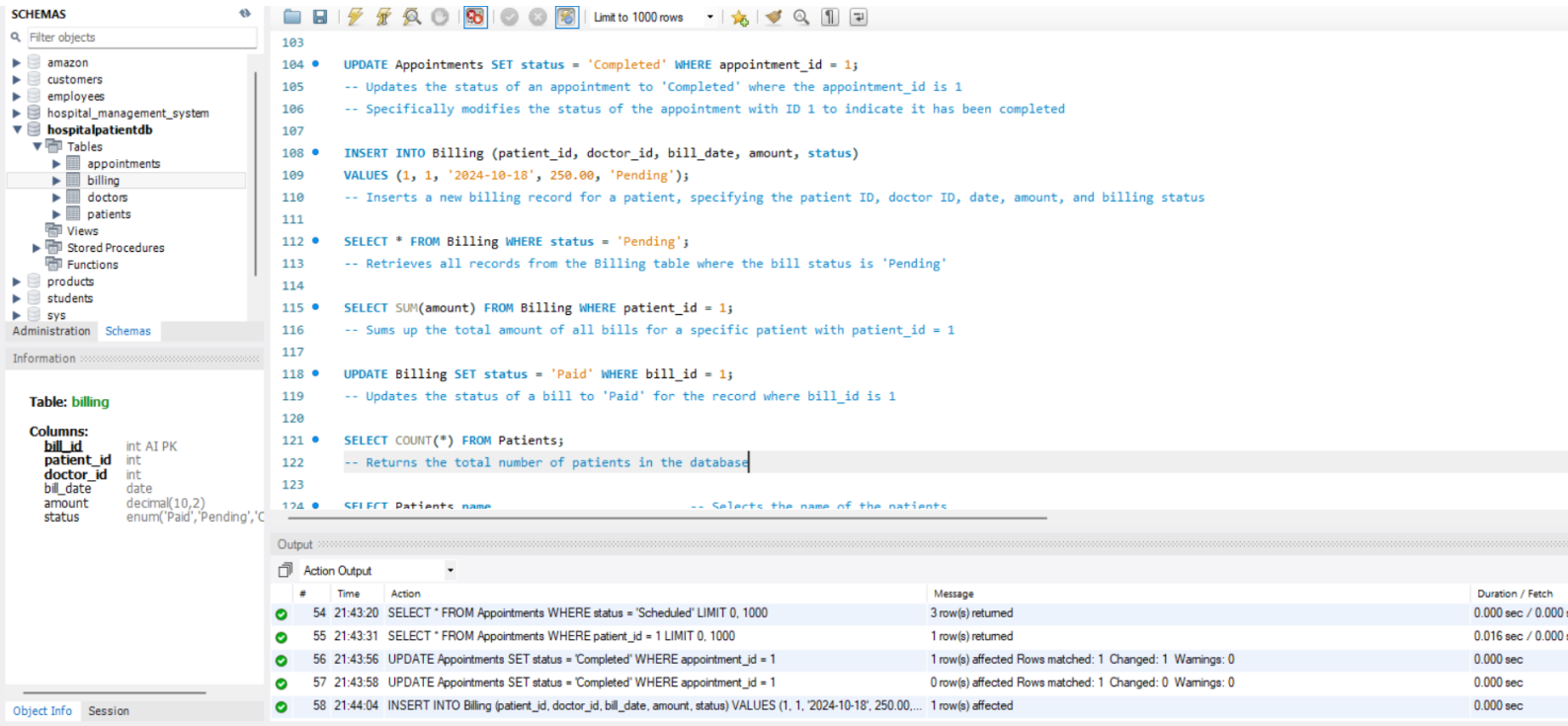
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
Execute the selected portion of the script or everything, if there is no selection
-- Shows all columns and records from the Appointments table where the appointment status is 'Scheduled'
-- Filters the records to only include appointments that are currently scheduled (excluding canceled, completed, etc.)
SELECT * FROM Appointments WHERE patient_id = 1;
-- Retrieves all columns and records from the Appointments table where the patient_id is 1
-- Filters the records to show only appointments that belong to the patient with ID 1
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
appointment_id patient_id doctor_id appointment_date appointment_time status
1 1 1 2024-10-20 10:00:00 Scheduled
Appointments 10
Output
Action Output
Time Action Message Duration
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 se
52 21:42:43 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 se
53 21:43:00 SELECT * FROM Doctors LIMIT 0, 1000 4 row(s) returned 0.000 se
54 21:43:20 SELECT * FROM Appointments WHERE status = 'Scheduled' LIMIT 0, 1000 3 row(s) returned 0.000 se
55 21:43:31 SELECT * FROM Appointments WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.016 se


SCHEMAS
Filter objects
amazon
customers
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
97 -- Retrieves all columns and records from the Appointments table where the patient_id is 1
98 -- Filters the records to show only appointments that belong to the patient with ID 1
99
100 SELECT * FROM Appointments WHERE doctor_id = 1;
101 -- Retrieves all columns and records from the Appointments table where the doctor_id is 1
102 -- Filters the records to show only appointments that belong to the doctor with ID 1
103
104 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1;
105 -- Updates the status of an appointment to 'Completed' where the appointment_id is 1
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
appointment_id patient_id doctor_id appointment_date appointment_time status
1 1 1 2024-10-20 10:00:00 Scheduled
Appointments 10
Output
Action Output
Time Action Message Duration / F
51 21:42:27 SELECT * FROM Patients LIMIT 0, 1000 12 row(s) returned 0.000 sec /
52 21:42:43 SELECT medical_history FROM Patients WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec /
53 21:43:00 SELECT * FROM Doctors LIMIT 0, 1000 4 row(s) returned 0.000 sec /
54 21:43:20 SELECT * FROM Appointments WHERE status = 'Scheduled' LIMIT 0, 1000 3 row(s) returned 0.000 sec /
55 21:43:31 SELECT * FROM Appointments WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.016 sec /


SCHEMAS
Filter objects
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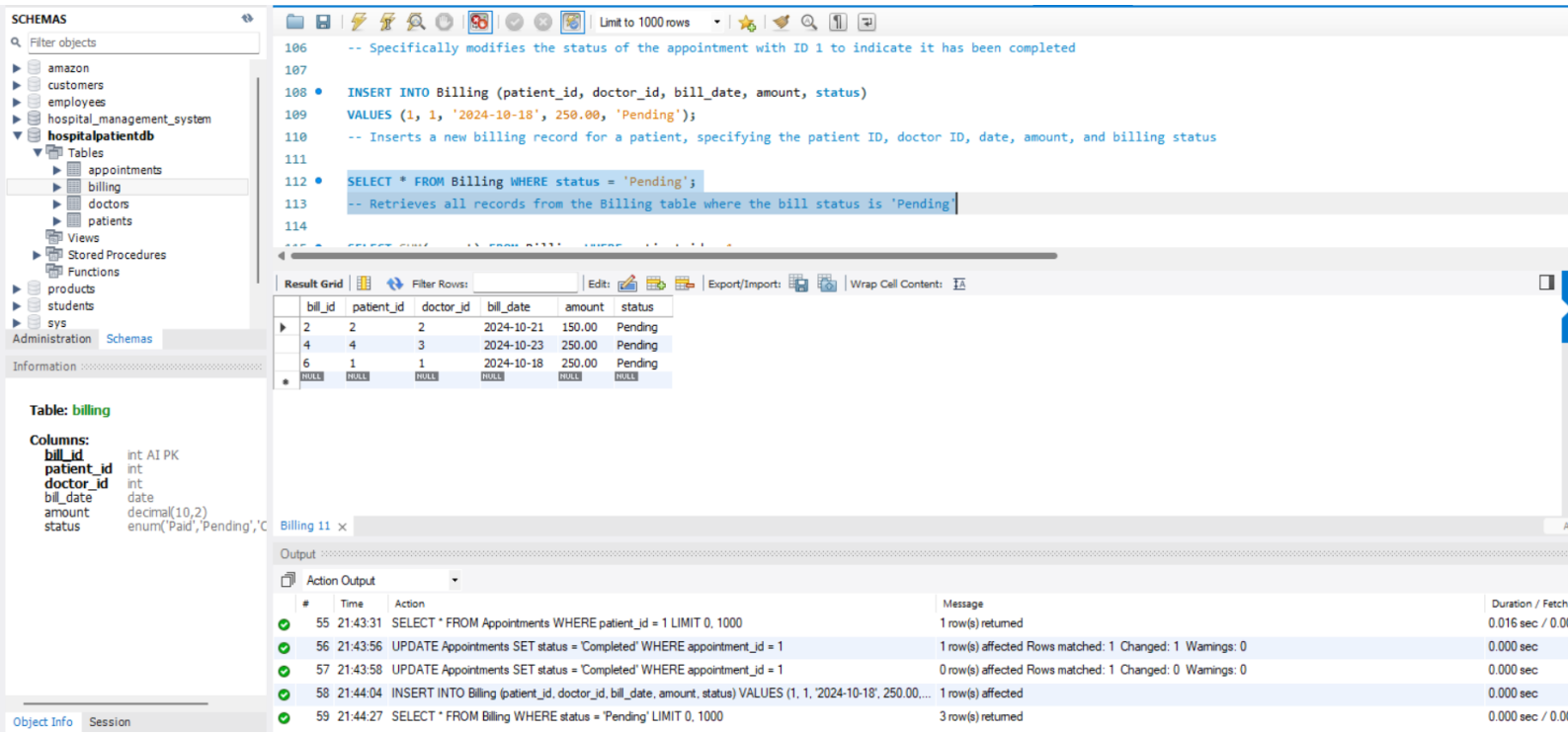
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
103
104 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1;
105 -- Updates the status of an appointment to 'Completed' where the appointment_id is 1
106 -- Specifically modifies the status of the appointment with ID 1 to indicate it has been completed
107
108 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status)
109 VALUES (1, 1, '2024-10-18', 250.00, 'Pending');
110 -- Inserts a new billing record for a patient, specifying the patient ID, doctor ID, date, amount, and billing status
111
112 SELECT * FROM Billing WHERE status = 'Pending';
113 -- Retrieves all records from the Billing table where the bill status is 'Pending'
114
115 SELECT SUM(amount) FROM Billing WHERE patient_id = 1;
116 -- Sums up the total amount of all bills for a specific patient with patient_id = 1
117
118 UPDATE Billing SET status = 'Paid' WHERE bill_id = 1;
119 -- Updates the status of a bill to 'Paid' for the record where bill_id is 1
120
121 SELECT COUNT(*) FROM Patients;
122 -- Returns the total number of patients in the database
123
124 SELECT Patients.name -- Selects the name of the patients
Output
Action Output
Time Action Message Duration / Fetch
54 21:43:20 SELECT * FROM Appointments WHERE status = 'Scheduled' LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.000
55 21:43:31 SELECT * FROM Appointments WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000
56 21:43:56 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
57 21:43:58 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 sec
58 21:44:04 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status) VALUES (1, 1, '2024-10-18', 250.00,... 1 row(s) affected 0.000 sec


SCHEMAS
Filter objects
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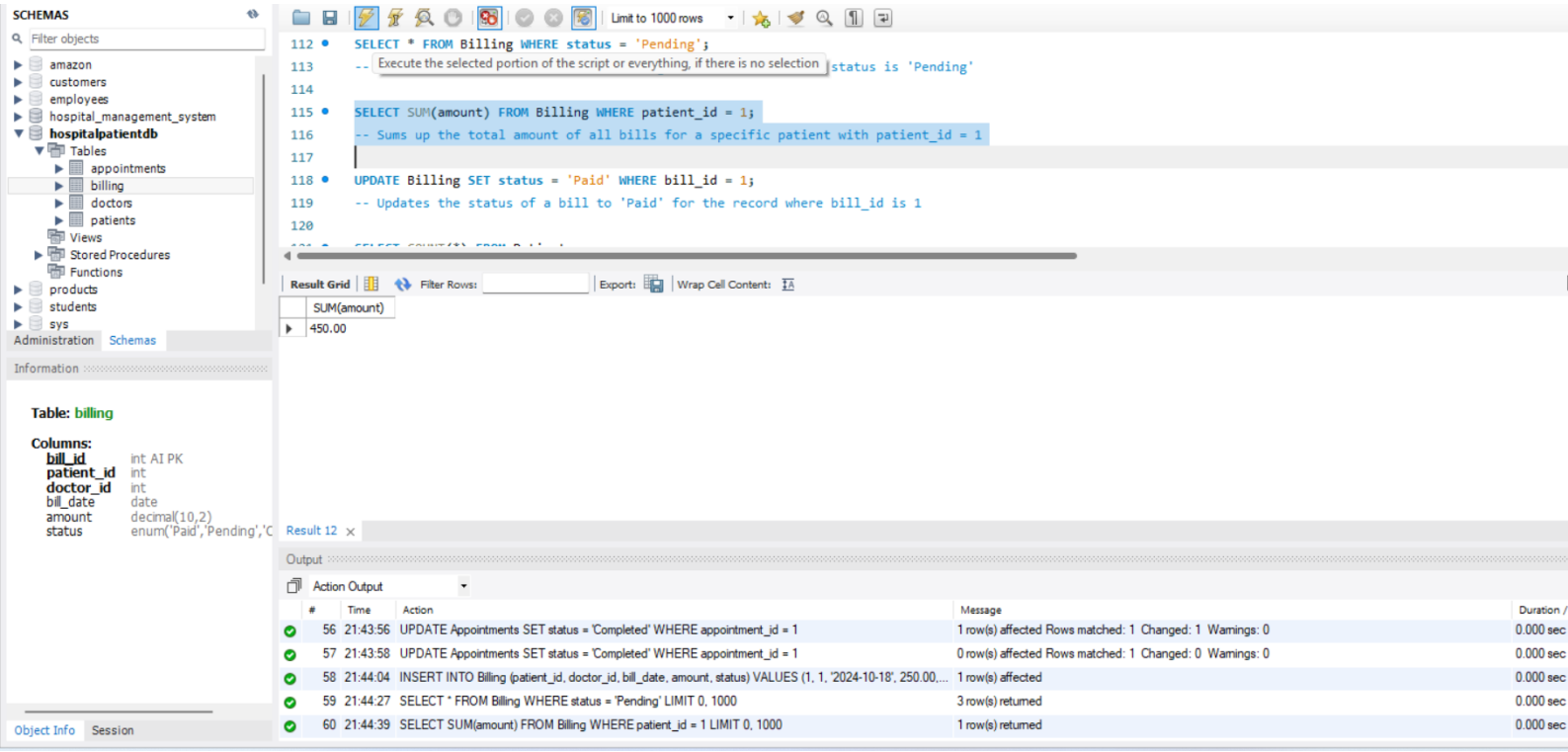
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
106 -- Specifically modifies the status of the appointment with ID 1 to indicate it has been completed
107
108 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status)
109 VALUES (1, 1, '2024-10-18', 250.00, 'Pending');
110 -- Inserts a new billing record for a patient, specifying the patient ID, doctor ID, date, amount, and billing status
111
112 SELECT * FROM Billing WHERE status = 'Pending';
113 -- Retrieves all records from the Billing table where the bill status is 'Pending'
114
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
bill_id patient_id doctor_id bill_date amount status
2 2 2 2024-10-21 150.00 Pending
4 4 3 2024-10-23 250.00 Pending
6 1 1 2024-10-18 250.00 Pending
Billing 11
Output
Action Output
Time Action Message Duration / Fetch
55 21:43:31 SELECT * FROM Appointments WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.0
56 21:43:56 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
57 21:43:58 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 sec
58 21:44:04 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status) VALUES (1, 1, '2024-10-18', 250.00,... 1 row(s) affected 0.000 sec
59 21:44:27 SELECT * FROM Billing WHERE status = 'Pending' LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.0


SCHEMAS
Filter objects
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Tables
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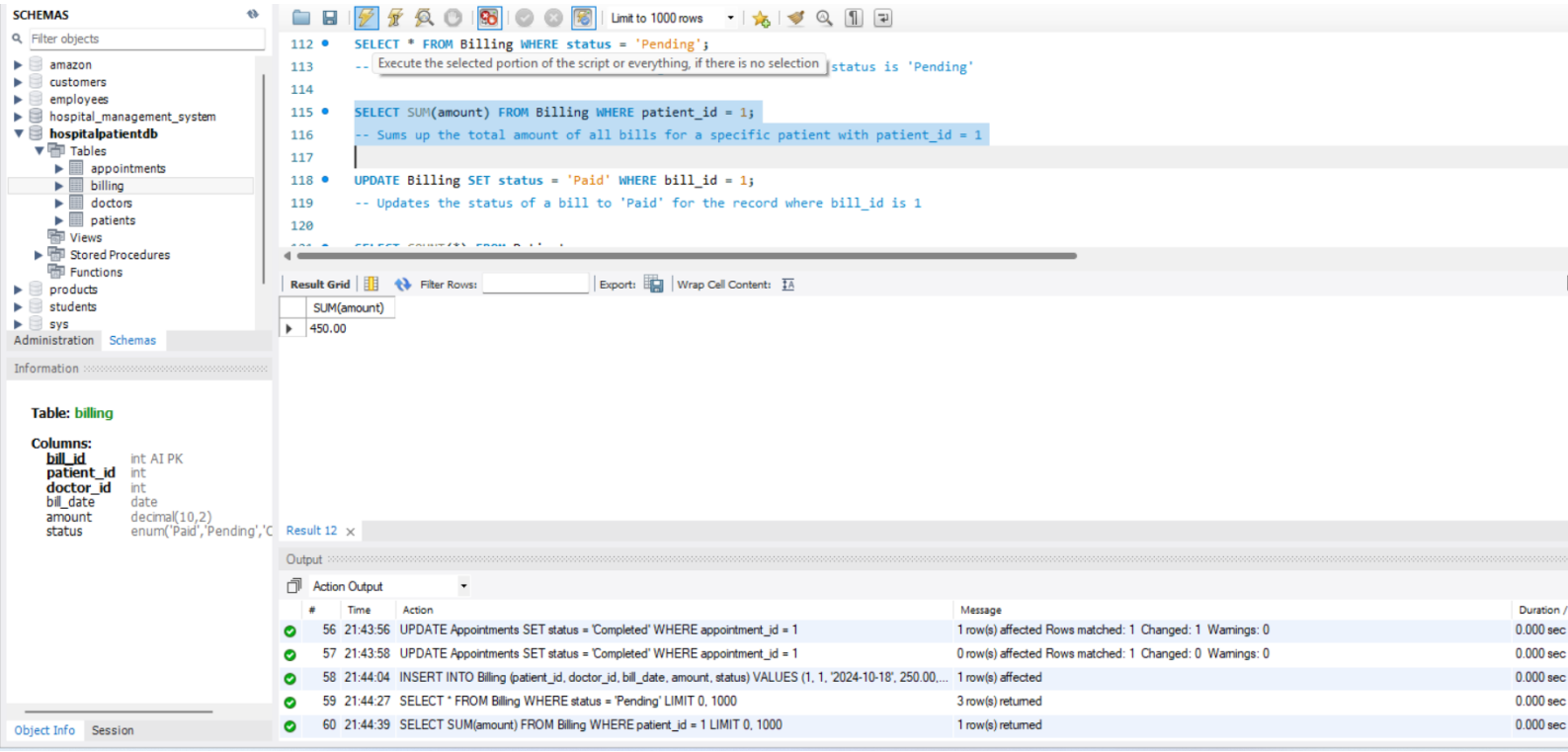
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
112 SELECT * FROM Billing WHERE status = 'Pending';
113 -- Execute the selected portion of the script or everything, if there is no selection status is 'Pending'
114
115 SELECT SUM(amount) FROM Billing WHERE patient_id = 1;
116 -- Sums up the total amount of all bills for a specific patient with patient_id = 1
117
118 UPDATE Billing SET status = 'Paid' WHERE bill_id = 1;
119 -- Updates the status of a bill to 'Paid' for the record where bill_id is 1
120
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
SUM(amount)
450.00
Result 12
Output
Action Output
Time Action Message Duration /
56 21:43:56 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
57 21:43:58 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 sec
58 21:44:04 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status) VALUES (1, 1, '2024-10-18', 250.00,... 1 row(s) affected 0.000 sec
59 21:44:27 SELECT * FROM Billing WHERE status = 'Pending' LIMIT 0, 1000 3 row(s) returned 0.000 sec
60 21:44:39 SELECT SUM(amount) FROM Billing WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec


SCHEMAS
Filter objects
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hospitalpatientdb
Tables
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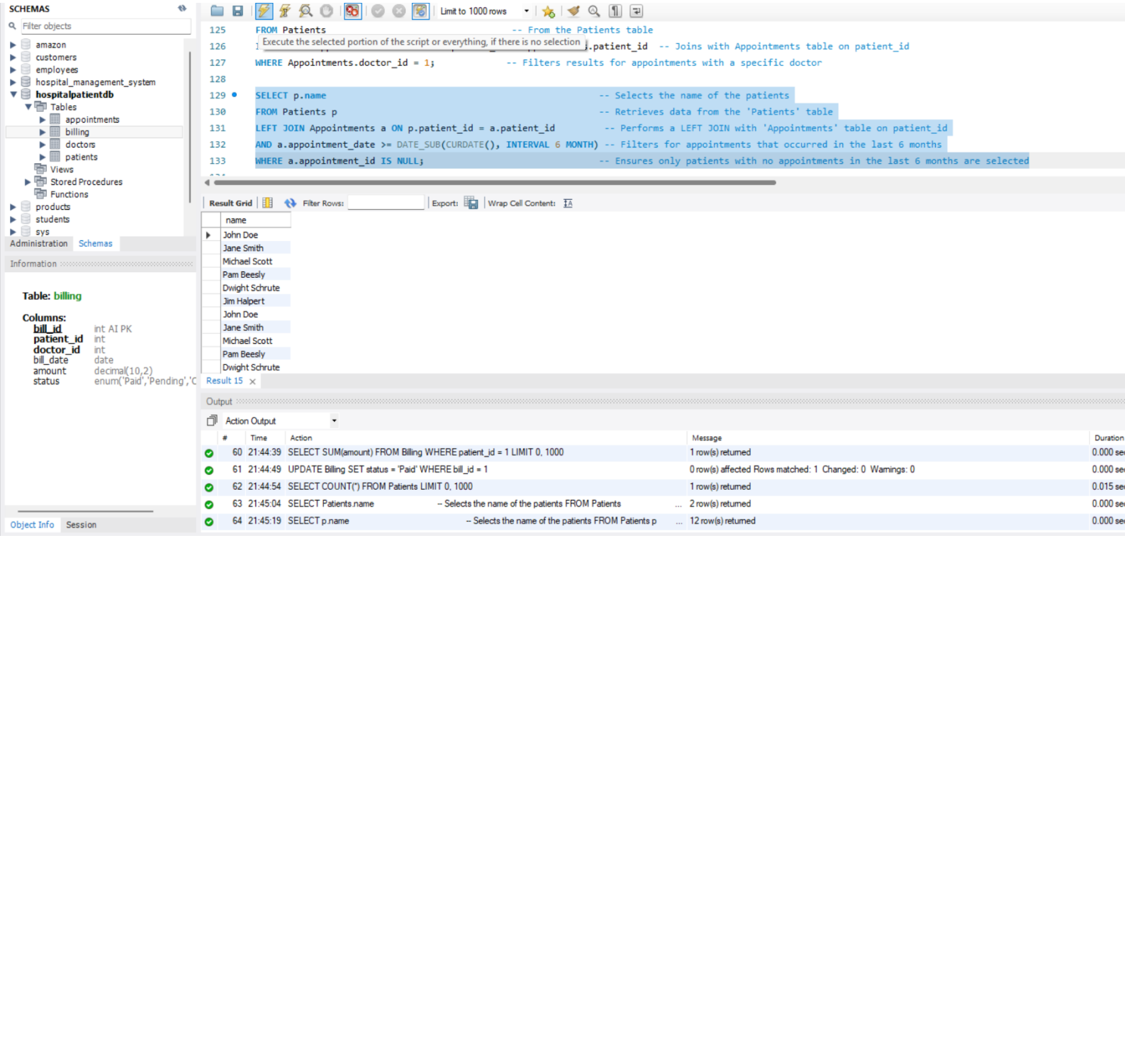
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
112 SELECT * FROM Billing WHERE status = 'Pending';
113 -- Execute the selected portion of the script or everything, if there is no selection status is 'Pending'
114
115 SELECT SUM(amount) FROM Billing WHERE patient_id = 1;
116 -- Sums up the total amount of all bills for a specific patient with patient_id = 1
117
118 UPDATE Billing SET status = 'Paid' WHERE bill_id = 1;
119 -- Updates the status of a bill to 'Paid' for the record where bill_id is 1
120
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
SUM(amount)
450.00
Result 12
Output
Action Output
Time Action Message Duration /
56 21:43:56 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
57 21:43:58 UPDATE Appointments SET status = 'Completed' WHERE appointment_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 sec
58 21:44:04 INSERT INTO Billing (patient_id, doctor_id, bill_date, amount, status) VALUES (1, 1, '2024-10-18', 250.00,... 1 row(s) affected 0.000 sec
59 21:44:27 SELECT * FROM Billing WHERE status = 'Pending' LIMIT 0, 1000 3 row(s) returned 0.000 sec
60 21:44:39 SELECT SUM(amount) FROM Billing WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 sec


SCHEMAS
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Views
Stored Procedures
Functions
products
students
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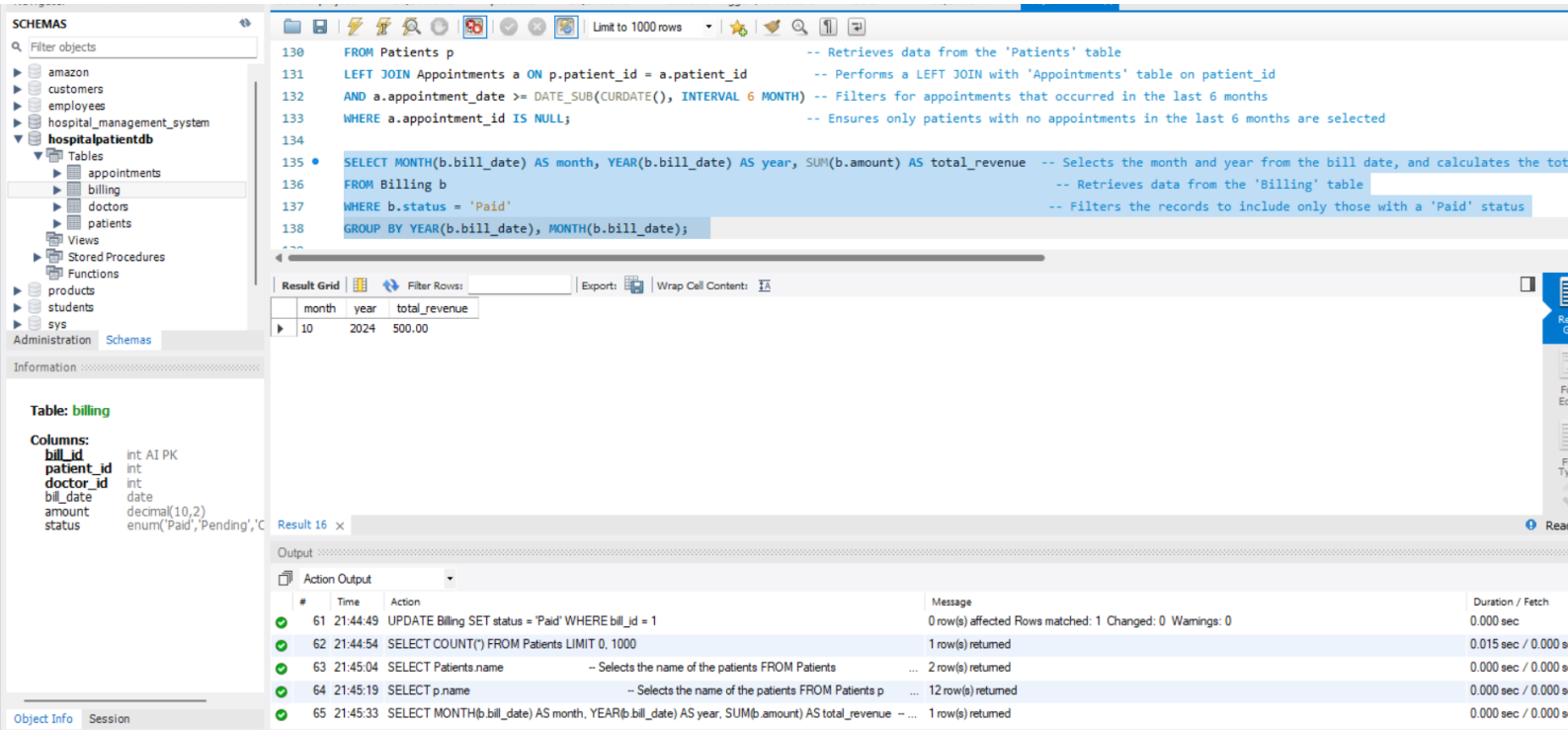
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
Execute the selected portion of the script or everything, if there is no selection
FROM Patients -- From the Patients table
.patient_id -- Joins with Appointments table on patient_id
WHERE Appointments.doctor_id = 1; -- Filters results for appointments with a specific doctor
SELECT p.name -- Selects the name of the patients
FROM Patients p -- Retrieves data from the 'Patients' table
LEFT JOIN Appointments a ON p.patient_id = a.patient_id -- Performs a LEFT JOIN with 'Appointments' table on patient_id
AND a.appointment_date >= DATE_SUB(CURDATE(), INTERVAL 6 MONTH) -- Filters for appointments that occurred in the last 6 months
WHERE a.appointment_id IS NULL; -- Ensures only patients with no appointments in the last 6 months are selected
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
name
John Doe
Jane Smith
Michael Scott
Pam Beesly
Dwight Schrute
Jim Halpert
John Doe
Jane Smith
Michael Scott
Pam Beesly
Dwight Schrute
Result 15
Output
Action Output
Time Action Message Duration
60 21:44:39 SELECT SUM(amount) FROM Billing WHERE patient_id = 1 LIMIT 0, 1000 1 row(s) returned 0.000 se
61 21:44:49 UPDATE Billing SET status = 'Paid' WHERE bill_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 se
62 21:44:54 SELECT COUNT(*) FROM Patients LIMIT 0, 1000 1 row(s) returned 0.015 se
63 21:45:04 SELECT Patients.name -- Selects the name of the patients FROM Patients ... 2 row(s) returned 0.000 se
64 21:45:19 SELECT p.name -- Selects the name of the patients FROM Patients p ... 12 row(s) returned 0.000 se


SCHEMAS
Filter objects
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Tables
appointments
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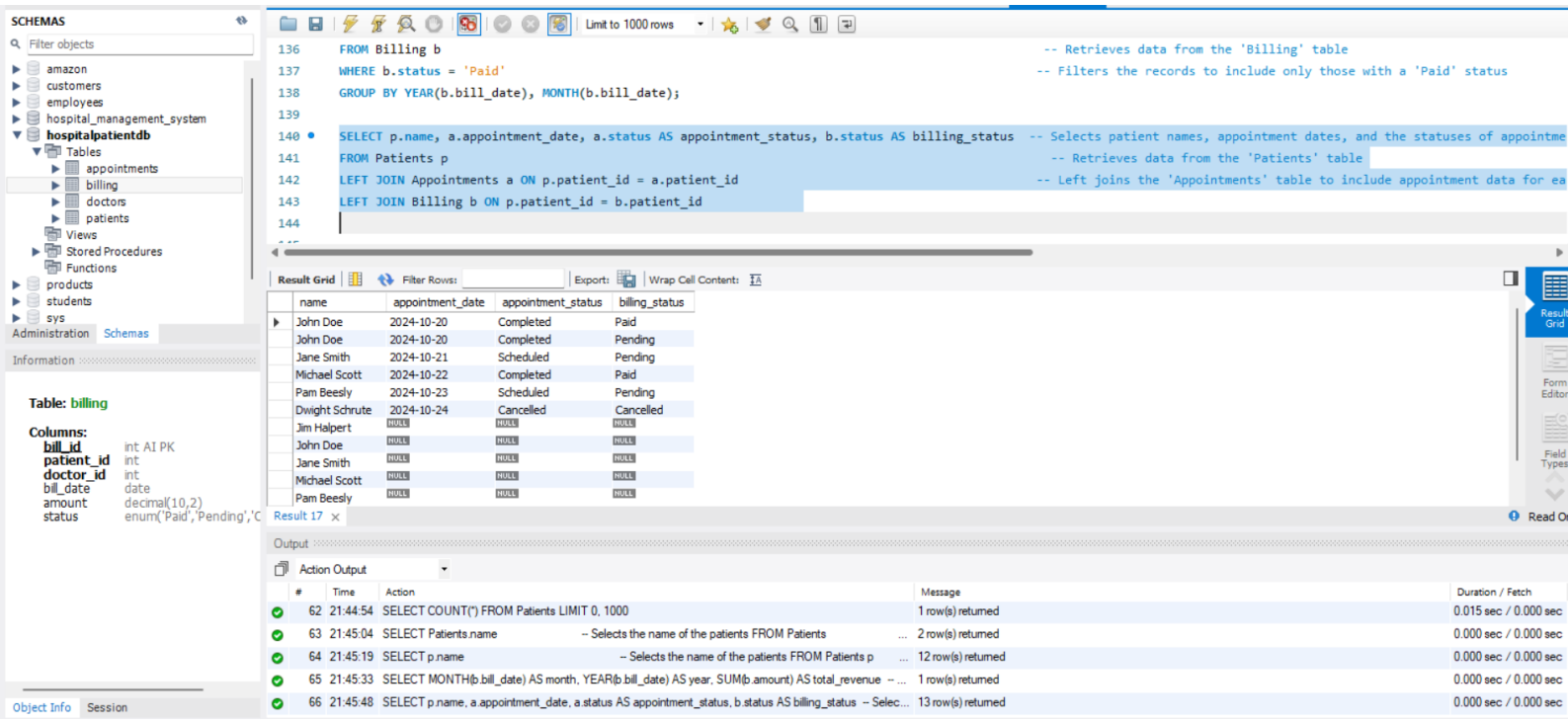
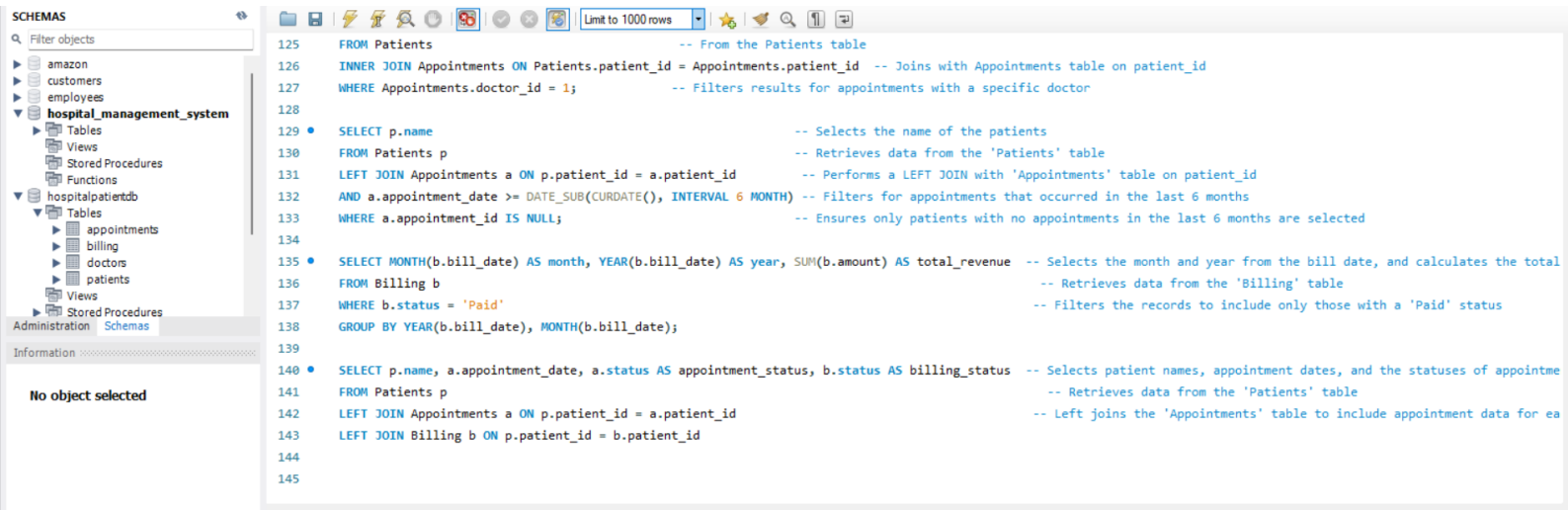
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
130 FROM Patients p -- Retrieves data from the 'Patients' table
131 LEFT JOIN Appointments a ON p.patient_id = a.patient_id -- Performs a LEFT JOIN with 'Appointments' table on patient_id
132 AND a.appointment_date >= DATE_SUB(CURDATE(), INTERVAL 6 MONTH) -- Filters for appointments that occurred in the last 6 months
133 WHERE a.appointment_id IS NULL; -- Ensures only patients with no appointments in the last 6 months are selected
134
135 SELECT MONTH(b.bill_date) AS month, YEAR(b.bill_date) AS year, SUM(b.amount) AS total_revenue -- Selects the month and year from the bill date, and calculates the tot
136 FROM Billing b -- Retrieves data from the 'Billing' table
137 WHERE b.status = 'Paid' -- Filters the records to include only those with a 'Paid' status
138 GROUP BY YEAR(b.bill_date), MONTH(b.bill_date);
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
month year total_revenue
10 2024 500.00
Result 16
Output
Action Output
Time Action Message Duration / Fetch
61 21:44:49 UPDATE Billing SET status = 'Paid' WHERE bill_id = 1 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0 0.000 sec
62 21:44:54 SELECT COUNT(*) FROM Patients LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 s
63 21:45:04 SELECT Patients.name -- Selects the name of the patients FROM Patients ... 2 row(s) returned 0.000 sec / 0.000 s
64 21:45:19 SELECT p.name -- Selects the name of the patients FROM Patients p ... 12 row(s) returned 0.000 sec / 0.000 s
65 21:45:33 SELECT MONTH(b.bill_date) AS month, YEAR(b.bill_date) AS year, SUM(b.amount) AS total_revenue -- ... 1 row(s) returned 0.000 sec / 0.000 s


SCHEMAS
Filter objects
amazon
customers
employees
hospital_management_system
hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Functions
products
students
sys
Administration
Schemas
Information
Table: billing
Columns:
bill_id int AI PK
patient_id int
doctor_id int
bill_date date
amount decimal(10,2)
status enum('Paid','Pending','C
Object Info
Session
Limit to 1000 rows
136 FROM Billing b -- Retrieves data from the 'Billing' table
137 WHERE b.status = 'Paid' -- Filters the records to include only those with a 'Paid' status
138 GROUP BY YEAR(b.bill_date), MONTH(b.bill_date);
139
140 SELECT p.name, a.appointment_date, a.status AS appointment_status, b.status AS billing_status -- Selects patient names, appointment dates, and the statuses of appointme
141 FROM Patients p -- Retrieves data from the 'Patients' table
142 LEFT JOIN Appointments a ON p.patient_id = a.patient_id -- Left joins the 'Appointments' table to include appointment data for ea
143 LEFT JOIN Billing b ON p.patient_id = b.patient_id
144
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
name appointment_date appointment_status billing_status
John Doe 2024-10-20 Completed Paid
John Doe 2024-10-20 Completed Pending
Jane Smith 2024-10-21 Scheduled Pending
Michael Scott 2024-10-22 Completed Paid
Pam Beesly 2024-10-23 Scheduled Pending
Dwight Schrute 2024-10-24 Cancelled Cancelled
Jim Halpert NULL NULL NULL
John Doe NULL NULL NULL
Jane Smith NULL NULL NULL
Michael Scott NULL NULL NULL
Pam Beesly NULL NULL NULL
Result 17
Output
Action Output
Time Action Message Duration / Fetch
62 21:44:54 SELECT COUNT(*) FROM Patients LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 sec
63 21:45:04 SELECT Patients.name -- Selects the name of the patients FROM Patients ... 2 row(s) returned 0.000 sec / 0.000 sec
64 21:45:19 SELECT p.name -- Selects the name of the patients FROM Patients p ... 12 row(s) returned 0.000 sec / 0.000 sec
65 21:45:33 SELECT MONTH(b.bill_date) AS month, YEAR(b.bill_date) AS year, SUM(b.amount) AS total_revenue -- ... 1 row(s) returned 0.000 sec / 0.000 sec
66 21:45:48 SELECT p.name, a.appointment_date, a.status AS appointment_status, b.status AS billing_status -- Selec... 13 row(s) returned 0.000 sec / 0.000 sec


SCHEMAS
Filter objects
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Stored Procedures
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hospitalpatientdb
Tables
appointments
billing
doctors
patients
Views
Stored Procedures
Administration
Schemas
Information
No object selected
Limit to 1000 rows
FROM Patients -- From the Patients table
INNER JOIN Appointments ON Patients.patient_id = Appointments.patient_id -- Joins with Appointments table on patient_id
WHERE Appointments.doctor_id = 1; -- Filters results for appointments with a specific doctor
SELECT p.name -- Selects the name of the patients
FROM Patients p -- Retrieves data from the 'Patients' table
LEFT JOIN Appointments a ON p.patient_id = a.patient_id -- Performs a LEFT JOIN with 'Appointments' table on patient_id
AND a.appointment_date >= DATE_SUB(CURDATE(), INTERVAL 6 MONTH) -- Filters for appointments that occurred in the last 6 months
WHERE a.appointment_id IS NULL; -- Ensures only patients with no appointments in the last 6 months are selected
SELECT MONTH(b.bill_date) AS month, YEAR(b.bill_date) AS year, SUM(b.amount) AS total_revenue -- Selects the month and year from the bill date, and calculates the total
FROM Billing b -- Retrieves data from the 'Billing' table
WHERE b.status = 'Paid' -- Filters the records to include only those with a 'Paid' status
GROUP BY YEAR(b.bill_date), MONTH(b.bill_date);
SELECT p.name, a.appointment_date, a.status AS appointment_status, b.status AS billing_status -- Selects patient names, appointment dates, and the statuses of appointme
FROM Patients p -- Retrieves data from the 'Patients' table
LEFT JOIN Appointments a ON p.patient_id = a.patient_id -- Left joins the 'Appointments' table to include appointment data for ea
LEFT JOIN Billing b ON p.patient_id = b.patient_id