

Resource Booking System Testing DATABASE

List all tables

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the 'ResourceBookingDb' database structure, including tables, views, and security. The main pane shows a SQL query executed in the 'SQLQuery1.sql' window. The query is:

```
1 SELECT TABLE_NAME
2 FROM INFORMATION_SCHEMA.TABLES
3 WHERE TABLE_TYPE = 'BASE TABLE'
4 ORDER BY TABLE_NAME;
```

The results pane shows the following tables:

TABLE_NAME
1
2
3
4
5
6
7
8
9
10
11

The status bar at the bottom indicates 'Query executed successfully.' and the connection is '(localdb)\MSSQLLocalDB (15....) DESKTOP-4D1EI'.

Show columns for bookings

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the 'ResourceBookingDb' database structure. The main pane shows a SQL query executed in the 'SQLQuery1.sql' window. The query is:

```
1 SELECT COLUMN_NAME, DATA_TYPE, IS_NULLABLE
2 FROM INFORMATION_SCHEMA.COLUMNS
3 WHERE TABLE_NAME = 'Bookings'
4 ORDER BY ORDINAL_POSITION;
```

The results pane shows the following columns:

COLUMN_NAME	DATA_TYPE	IS_NULLABLE	
1	Id	int	NO
2	ResourceId	int	NO
3	StartTime	datetime2	NO
4	EndTime	datetime2	NO
5	Purpose	nvarchar	NO
6	Cancelled	bit	NO
7	UserId	nvarchar	NO
8	IsRecuring	bit	NO
9	ParentBookingId	int	YES
10	RecurrenceEndDate	datetime2	YES
11	RecurrenceInterval	int	YES
12	RecurrenceType	int	YES

The status bar at the bottom indicates 'Query executed successfully.' and the connection is '(localdb)\MSSQLLocalDB (15....) DESKTOP-4D1EI'.

Row counts for main tables

SQLQuery1.sql...H6\cash (58))*

1

2

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5

SELECT

(SELECT COUNT(*) FROM Resources) AS Resources,

(SELECT COUNT(*) FROM Bookings) AS Bookings,

(SELECT COUNT(*) FROM Notifications) AS Notifications,

(SELECT COUNT(*) FROM AspNetUsers) AS Users;

100 %

No issues found

ResultsMessages

	Resources	Bookings	Notifications	Users
1	7	37	176	3

Last 20 bookings

SQLQuery1.sql...H6\cash (58))*

2

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12

b.Id,

r.Name AS Resource,

u.Email AS userEmail,

b.StartTime,

b.EndTime,

b.Cancelled,

b.Purpose

FROM Bookings b

LEFT JOIN Resources r ON b.ResourceId = r.Id

LEFT JOIN AspNetUsers u ON b.UserId = u.Id

ORDER BY b.StartTime DESC;

100 %

No issues found

Ln: 1 Ch: 15 TABS

ResultsMessages

	Id	Resource	UserEmail	StartTime	EndTime	Cancelled	Purpose
1	58	Presentation Clicker	sipho@company.com	2025-11-26 10:45:00.0000000	2025-11-26 11:45:00.0000000	0	Stand Up Session (Recurring)
2	57	Presentation Clicker	sipho@company.com	2025-11-19 10:45:00.0000000	2025-11-19 11:45:00.0000000	0	Stand Up Session (Recurring)
3	56	Presentation Clicker	sipho@company.com	2025-11-12 10:45:00.0000000	2025-11-12 11:45:00.0000000	0	Stand Up Session (Recurring)
4	55	Presentation Clicker	sipho@company.com	2025-11-05 10:45:00.0000000	2025-11-05 11:45:00.0000000	0	Stand Up Session (Recurring)
5	54	Presentation Clicker	sipho@company.com	2025-10-29 10:45:00.0000000	2025-10-29 11:45:00.0000000	0	Stand Up Session (Recurring)
6	53	Presentation Clicker	sipho@company.com	2025-10-22 10:45:00.0000000	2025-10-22 11:45:00.0000000	0	Stand Up Session (Recurring)
7	52	Presentation Clicker	sipho@company.com	2025-10-15 10:45:00.0000000	2025-10-15 11:45:00.0000000	0	Stand Up Session (Recurring)
8	51	Presentation Clicker	sipho@company.com	2025-10-08 10:45:00.0000000	2025-10-08 11:45:00.0000000	0	Stand Up Session (Recurring)
9	50	Presentation Clicker	sipho@company.com	2025-10-01 10:45:00.0000000	2025-10-01 11:45:00.0000000	1	Stand Up Session (Recurring)
10	49	Presentation Clicker	sipho@company.com	2025-09-24 10:45:00.0000000	2025-09-24 11:45:00.0000000	0	Stand Up Session (Recurring)
11	5	Conference Room A	sipho@company.com	2025-09-24 10:00:00.0000000	2025-09-24 15:00:00.0000000	0	Meeting
12	76	Conference Room A	amanda@company.com	2025-09-22 07:00:00.0000000	2025-09-22 07:30:00.0000000	0	Weekly Marketing Standup (Recurring)
13	48	Presentation Clicker	sipho@company.com	2025-09-17 10:45:00.0000000	2025-09-17 11:45:00.0000000	0	Stand Up Session (Recurring)
14	75	Conference Room A	amanda@company.com	2025-09-15 07:00:00.0000000	2025-09-15 07:30:00.0000000	0	Weekly Marketing Standup (Recurring)
15	47	Presentation Clicker	sipho@company.com	2025-09-10 10:45:00.0000000	2025-09-10 11:45:00.0000000	0	Stand Up Session (Recurring)

Query executed successfully. (localdb)\MSSQLLocalDB (15... DESKTOP-4D1EUH6\cash (58) ResourceBookingDb 00:00:00 20 rows

Upcoming bookings next seven days

SQLQuery1.sql...H6\cash (58))*

```
1  SELECT b.Id, r.Name AS Resource, u.Email, b.StartTime, b.EndTime, b.Purpose
2  FROM Bookings b
3  JOIN Resources r ON b.ResourceId = r.Id
4  JOIN AspNetUsers u ON b.UserId = u.Id
5  WHERE b.Cancelled = 0
6        AND b.StartTime >= SYSUTCDATETIME()
7        AND b.StartTime < DATEADD(day, 7, SYSUTCDATETIME())
8  ORDER BY b.StartTime;
```

100 %

No issues found

Results

Messages

	Id	Resource	Email	StartTime	EndTime	Purpose
1	75	Conference Room A	amanda@company.com	2025-09-15 07:00:00.0000000	2025-09-15 07:30:00.0000000	Weekly Marketing Standup (Recurring)
2	48	Presentation Clicker	sipho@company.com	2025-09-17 10:45:00.0000000	2025-09-17 11:45:00.0000000	Stand Up Session (Recurring)

Monthly trends: bookings per month (last 12 months)

SQLQuery1.sql...H6\cash (58))*

```
1 SELECT
2     FORMAT(StartTime, 'yyyy-MM') AS YearMonth,
3     COUNT(*) AS Bookings
4 FROM Bookings
5 WHERE StartTime >= DATEADD(month, -12, SYSUTCDATETIME())
6     AND Cancelled = 0
7 GROUP BY FORMAT(StartTime, 'yyyy-MM')
8 ORDER BY YearMonth DESC;
```

100 % No issues found

Results			Messages		
	YearMonth	Bookings			
1	2025-11	4			
2	2025-10	4			
3	2025-09	22			
4	2025-08	1			

Top users by bookings

SQLQuery1.sql...H6\cash (58))

```
1 SELECT TOP 20
2     u.Id,
3     u.Email,
4     COUNT(b.Id) AS BookingCount,
5     SUM(DATEDIFF(MINUTE, b.StartTime, b.EndTime))/60.0 AS TotalHours
6 FROM AspNetUsers u
7 JOIN Bookings b ON b.UserId = u.Id AND b.Cancelled = 0
8 GROUP BY u.Id, u.Email
9 ORDER BY TotalHours DESC;
```

100 % No issues found

Results Messages

	Id	Email	BookingCount	TotalHours
1	ab344b2b-b8d2-4b3b-ab43-158dde8b5fb4	sipho@company.com	22	44.250000
2	2499ee95-9cc9-4a94-8c0b-d007c4c4e0e7	amanda@company.com	6	4.500000
3	1f45811c-a0ed-4de9-a010-e87c5f7c8e0a	thabo@company.com	3	3.500000

Recent notifications (15)

SQLQuery1.sql...H6\cash (58))

1

2

3

4

5

6

SELECT TOP 15

n.Id, n.Type, n.Title, n.Message, n.IsRead, n.CreatedAt,

u.Email

FROM Notifications n

LEFT JOIN AspNetUsers u ON n.UserId = u.Id

ORDER BY n.CreatedAt DESC;

100 %

No issues found

Ln: 1

Chi:

Results

Messages

	Id	Type	Title	Message	IsRead	CreatedAt	Email
1	182	0	Welcome to Resource Booking!	Hello Siphon Mthembu! Welcome to our Resource Boo...	0	2025-09-04 15:41:10.4480531	sipho@company.com
2	181	0	Welcome to Resource Booking!	Hello Amanda van der Merwe! Welcome to our Resour...	0	2025-09-04 15:41:10.4385406	amanda@company.com
3	180	0	Welcome to Resource Booking!	Hello Thabo Mokoena! Welcome to our Resource Boo...	0	2025-09-04 15:41:09.9686609	thabo@company.com
4	179	0	Welcome to Resource Booking!	Hello Siphon Mthembu! Welcome to our Resource Boo...	0	2025-09-04 12:01:50.7479395	sipho@company.com
5	178	0	Welcome to Resource Booking!	Hello Amanda van der Merwe! Welcome to our Resour...	1	2025-09-04 12:01:50.6639990	amanda@company.com
6	177	0	Welcome to Resource Booking!	Hello Thabo Mokoena! Welcome to our Resource Boo...	0	2025-09-04 12:01:49.9726415	thabo@company.com
7	175	1	Booking Confirmed	Your booking for 'Conference Room A' has been confir...	1	2025-09-04 10:25:33.1565497	amanda@company.com
8	174	1	Booking Confirmed	Your booking for 'Conference Room A' has been confir...	1	2025-09-04 10:15:44.3045561	amanda@company.com
9	173	2	Booking Cancelled	Your booking for 'Conference Room A' scheduled for S...	1	2025-09-04 10:13:23.7445729	amanda@company.com
10	172	1	Booking Confirmed	Your booking for 'Conference Room A' has been confir...	1	2025-09-04 10:12:46.3539613	amanda@company.com
11	171	2	Booking Cancelled	Your booking for 'Company Car 1 Sedan' scheduled for...	1	2025-09-04 09:56:28.4235748	amanda@company.com
12	170	2	Booking Cancelled	Your booking for 'Conference Room A' scheduled for S...	1	2025-09-04 09:54:54.3158669	amanda@company.com
13	169	1	Booking Confirmed	Your booking for 'Company Car 1 Sedan' has been co...	1	2025-09-04 09:54:35.0207353	amanda@company.com
14	168	1	Booking Confirmed	Your booking for 'Conference Room A' has been confir...	1	2025-09-04 09:49:40.0530244	amanda@company.com
15	167	1	Booking Confirmed	Your booking for 'Canon EOS R6 Mark II Kit' has been...	1	2025-09-04 09:48:31.8473640	amanda@company.com