USE db\_Athena;

SELECT

tbl\_room.fld\_roomName,

tbl\_room.fld\_floor,

tbl\_room.fld\_roomMaxPersonCount,

tbl\_booking.fld\_date,

tbl\_booking.fld\_startTime,

tbl\_booking.fld\_endTime,

tbl\_roomType.fld\_roomTypeName

FROM

tbl\_room

LEFT JOIN tbl\_booking ON tbl\_room.fld\_roomID = tbl\_booking.fld\_roomID AND tbl\_booking.fld\_date = '2024-05-28'

INNER JOIN tbl\_roomType ON tbl\_room.fld\_roomTypeID = tbl\_roomType.fld\_roomTypeID

ORDER BY

tbl\_room.fld\_roomName, tbl\_booking.fld\_startTime ASC;

Et billede, der indeholder tekst, skærmbillede, nummer/tal, Font/skrifttype

Automatisk genereret beskrivelse

-- Stored procedure to find available rooms on a given date

CREATE PROCEDURE getAvailableRooms (@BookingDate DATE)

AS

BEGIN

-- Calculates the total booking time for each room on the specified date ('NULL' if no booking yet)

WITH BookedTime AS (

SELECT

fld\_roomID,

SUM(DATEDIFF(MINUTE, fld\_startTime, fld\_endTime)) AS total\_booked\_time\_minutes

FROM

tbl\_booking

WHERE

fld\_date = @BookingDate

GROUP BY

fld\_roomID

)

-- Selects selected fields from 3 tables related to each other using INNER JOIN and LEFT JOIN - these are to be presented when displaying available rooms

SELECT

tbl\_room.fld\_roomName,

tbl\_room.fld\_floor,

tbl\_room.fld\_roomMaxPersonCount,

tbl\_roomType.fld\_roomTypeName

FROM

tbl\_room

LEFT JOIN BookedTime ON tbl\_room.fld\_roomID = BookedTime.fld\_roomID

INNER JOIN tbl\_roomType ON tbl\_room.fld\_roomTypeID = tbl\_roomType.fld\_roomTypeID

-- Filters the results to include only rooms that are either not booked on the specified date or have a total booked time less than 8 hours (480 minutes)

WHERE

BookedTime.total\_booked\_time\_minutes < 480 OR BookedTime.total\_booked\_time\_minutes IS NULL

-- Groups the results by four columns to ensure that we only see each room once in the list, even if there are multiple bookings on the selected day.

GROUP BY

tbl\_room.fld\_roomName,

tbl\_room.fld\_floor,

tbl\_roomType.fld\_roomTypeName,

tbl\_room.fld\_roomMaxPersonCount

-- The available rooms are sorted by room name (ascending) and start time (ascending)

ORDER BY

tbl\_room.fld\_roomName ASC;

END;