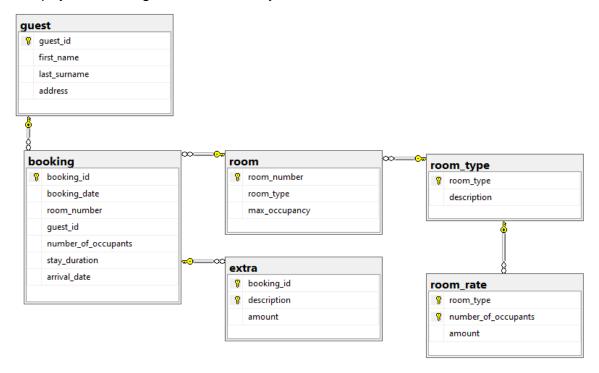
DATABASE DESIGN PORTFOLIO – PART A

GABRIELLA ROTERMUND KREISCHE

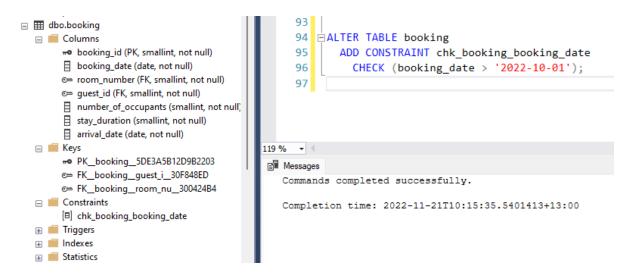
Evidence

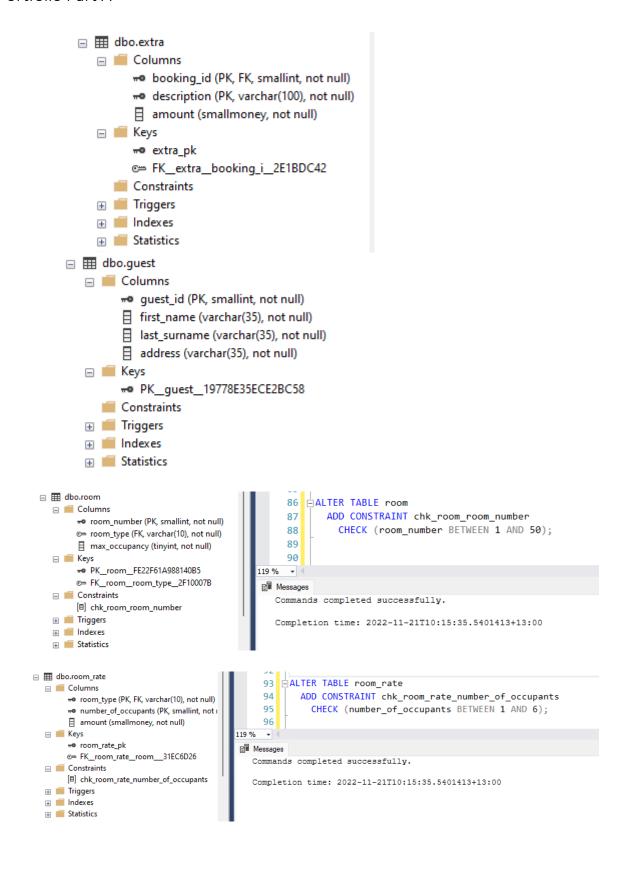
Screenshots are provided as evidence of items I have done:

1. A physical ERD generated from my database.

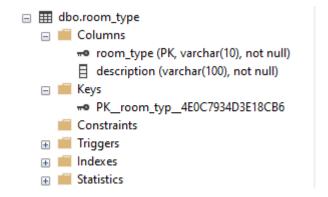


2. Each table of my database as given in the SSMS Object Explorer, showing the columns, keys, and constraints (one screenshot per table):





Portfolio Part A



3. Data Dictionary

- A Data Dictionary was done to organize myself and choose data types, tables names, attributes, constraints;
- I choose all data types to be NOT NULL because attributes in each table represent just the essential basic and important information needed;
- The room_type attribute is VARCHAR (10) because the biggest room type available has the length of 10 digits: Twin Share;
- The constraints were created taking into account that this hotel have only 50 rooms, the maximum number of occupants in a room is 6, the hotel was inaugurated on 01/10/2022.

				В	ooki	ngs [Data Dictionary		
Table Name	Column Name	Data Type	Length	Identity	P Key	F Key	Table Name of Foreign Key	Check Constraint	Description
guest	guest_id	smallint		Υ	PK		booking		
	first_name	VARCHAR	35						
	last_surname	VARCHAR	35						
	address	VARCHAR	35						
									the biggest room type lengh
room_type	room_type	VARCHAR	10		PK		room_rate, room		is 10 digits: Twin Share
	description	VARCHAR	100						
room	room_number	smallint			PK		booking	between 1 and 50	
	room_type	VARCHAR	10			FK			
	max_occupancy	TINYINT							
room_rate	room_type	VARCHAR	10		PK	FK			
	number_of_occupants	smallint			PK		booking	between 1 and 6	
	amount	smallmoney							
booking	booking_id	smallint		Y	PK				
	booking_date	date						greater than 1/10/2022	Format: YYYY-MM-DD
	room_number	smallint				FK			
	guest_id	smallint				FK			
	number_of_occupants	smallint							
	stay_duration	smallint							
	arrival_date	date							Format: YYYY-MM-DD
extra	booking_id	smallint		Υ	PK	FK	booking		
	description	VARCHAR	100		PK				
	amount	smallmoney							