HW 4 group, report for May 7th.  
  
  
The subject area chosen by our group is tourism agency – while this area is not particularly prosperous in the current pandemic period, this downtime can be used to optimize future business processes.   
  
Currently the tourism industry is very diverse, as while many take to organizing trips on their own, vacations organized by a professional specifically catering for a consumer’s needs are increasingly popular, especially among high-class, luxury travel or travel to unorthodox destinations where assistance and guidance is required – for example, trips to South America and Antarctica is becoming more relevant and popular among travelers, however, beside larger cities in large developing countries (such as Brazil, Argentina and Mexico), exploration of the countries will require special knowledge of paths, equipment for hiking mountains or glaciers and specially equipped vehicles for traversing undeveloped roads. For such needs, tourists often come to an agency to leave the search for the needed guide or equipment up to the workers.  
  
The database we are creating is aimed to aid tourism agencies with one source for all the information an employee may require to organize a tour – or booking, as we will call it further. Due to the nature of the job as a middleman between hotels (or other vacation services) and users, the information needed can be stored in different places – for example, lost in an employee’s or the company’s email inbox or, at times, found deep within an outdated website of a hotel or suite, oftentimes in another language. This project aims to reduce the time required to find the needed information and make sure it is securely stored in one place, with potential for later use, for example, for a returning customer.   
  
This database is developed for business use – it is not intended for consumers to use it, and its functions and the needs it satisfies are not aimed at individual travelers who plan the trip for themselves. Smaller companies focusing on individually catered trips will find greater use in this database, however, it could be used by larger companies as well for data organization and communication between different employees or departments.  
  
The software developed using it would take form of an application with options to create a new booking, add new data relating to an existing booking (defined by its individual number, or ID), edit or delete existing data related to a booking, and, finally, search for all data related to a specific user query, for example, the contact data, room types and prices of a hotel.   
  
The main entities used for this database are Booking, Client, Client manager, Destination, Hotel and Booking status. Additional services is a weaker entity of Booking, and Rooms is a weaker entity of Hotel. The structure of the database with entities and attributes can be seen below.

