Business Justification

I have created a database for a business whose objective is to be a Travel guide- who provide plans of different destinations that the business is tied up with. This can help people plan their vacations which includes Hotels, Activities, Restaurants, travel plans, customers and their orders.

The database has the following entities:

Country: For now I have chosen 4 countries: USA,UK,Indonesia and India.

Cities: These include cities in the above-mentioned countries. I have decided to take only an overview of some of the popular cities. This has a many to one relationship with the countries.

Activities: This is the nearby attractions and activities that a customer can book in a given city. This may include information like ID, Name, Discription, website, rating and address. Thus relationship for City to activities is one to many.

Hotel: This consists of Hotel name, ID, Rating, Address, Email, Phone number of hotels in a given city. Hence this is also a one to many relationship with the city.

Restaurant: This entity consists of ID, Name, Address description, phone number, website, Cuisine, Rating, Price of different restaurants in a given city. This is a one to many relationship with City.

Plans: This is one of the main entities of the business where we provide combination of all of the above as a 'package' which is allowed for customers to book using our platform. This includes plan name, Price, number of days, Description

Customers: These are just sample customers who have booked using our travel plans. The information includes Customer name, Address and phone number.

Orders: The orders entity is the bookings of a travel plan by customers using our business. It involves Order ID, Customer ID, Plan ID ,Order date, Plan start date and plan end date. This is an associative entity as Customers and plans is many to many relationship.

This operational Database can be useful to track customers and their travel plans. This management system is designed for the users to modify and manage data in real time. It is designed to easily monitor and retrieve information from different tables and their relationship. The forms allow the users to fill information and navigate easily to keep track of basic transactions. While Reports can be generated based on specific plans to specific cities and also print details of customer bookings (Orders).

This database is very useful in the future as we can create, Update and Delete information. For example: can generate custom plans, we can gather reviews, make bookings find flights

Database information:

FORMS:

1. **Frm0 Intro**
   Introduction Page: Based on the Country and City, I have added Option buttons to navigate the users to open details specific to : Hotels, Restaurants and Activity
2. **Frm1Order**
   Order Details form: This form enables the management to open the details of a specific order and Print the page of that order ("Print Order" is the Macro used by Referencing "OrderID" as the criteria for the query- "Query1Order" to open the report "rpt1OrderReport")
3. **Frm2City-Plan**
   City specific plan: This form is very similar to the intro page but for the detailed view of the options available for hotel, restaurant and activities specific to the city record.
   (used subforms to have a detailed view)
4. **Frm3Plan-**
   This is a Plan specific form which can be used as a reference point for the planning. Given a plan ID, what are the possible hotels and restaurant options available. (used Combobox to choose the customer and their plan start date so that it could be easier to monitor the schedule and options available.)

REPORTS:

1. **Rpt1OrderReport:**
   This report is used for referencing in the Macro to print order.
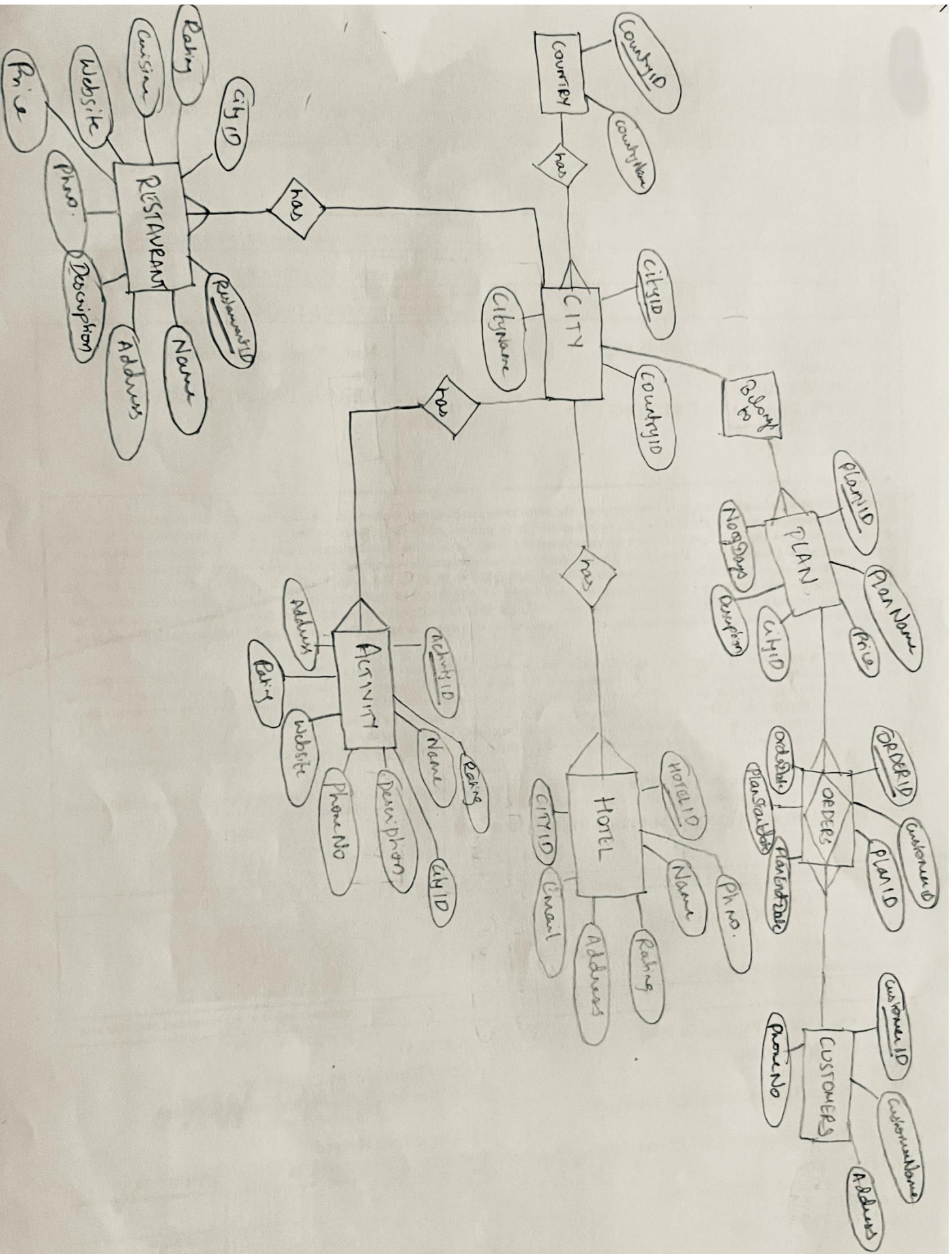2. **Rpt2Salespercustomer**
   This report is used to track the sales per customer, where I have used one customer per page and created a chart for total price including all plans.
3. **Rpt3 Plan Comparison Details**
   This report is used to compare price of each plan as I have added a chart at the page footer which has a graph of prices. This report also gives details of the customers who have ordered the specific plan.

SWITCHBOARD: This is an additional form I have used that can be used as a starting page for all users.
1. **City**: Opens Form2City-Plan (City specific plan)
2. **Open Details** : Navigation Form (to navigate to all the forms and reports I have created in one stop)
3. **Sign Up**: I have used this option for new customers to sign up by providing details which will automatically update in customers table. (Opens form in add mode)
4. **View More**: Opens form0 where one can select records Based on the Country and City, I have added Option buttons to navigate the users to open details specific to : Hotels, Restaurants and Activity

Entity-Relationship Diagram

COUNTRY (entity)
- CountryID
- CountryName
- has

CITY (entity)
- CityID
- CityName
- CountryID
- has

RESTAURANT (entity)
- RestaurantID
- CityID
- Rating
- Cuisine
- Website
- Price
- Phone
- Description
- Address
- Name

ACTIVITY (entity)
- ActivityID
- Address
- Rating
- Website
- Name
- Rating
- Description
- PhoneNo
- CityID

HOTEL (entity)
- HotelID
- CityID
- Email
- Address
- Rating
- Name
- Ph.no.

PLAN (entity)
- PlanID
- NoofDays
- Description
- CityID
- PlanName
- Price
- Belongs to

ORDERS (relationship)
- OrderID
- OrderDate
- PlanStartDate
- PlanEndDate
- CustomerID
- PlanID

CUSTOMERS (entity)
- CustomerID
- CustomerName
- Address
- PhoneNo

Relationships: has, has, has, Belongs to

RELATIONAL SCHEMA

COUNTRY

CountryID	CountryName

CITY

CityID	CountryID	CityName

HOTEL

HotelID	CityID	Name	Address	Rating	Email	PhoneNo

RESTAURANT

RestaurantID	CityID	Name	Address	Description	PhNo	Price	Website	Cuisine	Rating

ACTIVITY

ActivityID	CityID	Name	Description	PhNo	Website	Rating	Address

PLAN

PlanID	PlanName	Price	No of Days	Description	CityID

ORDER

OrderID	PlanID	CustomerID	OrderDate	PlanStartDate	PlanEndDate

CUSTOMERS

CustomerID	CustomerName	Address	PhoneNo

3 W's

1. What went well?

I was able to reflect on what I had learnt in class. I was able to create queries without any error in the first attempt.

2. What did not go well?

For me, I wanted to create a supertype-subtype for Dining and Activities but it was taking a lot of time to implement it.

3. What would you do differently next time?

I would add more destinations and add more forms to make it more user friendly by adding details of more hotels and flight bookings.