

*Hassan Jaber*  
[*@hassan.jaber03@lau.edu*](mailto:@hassan.jaber03@lau.edu)*Karem Al Aridi*  
[*@karem.alaridi@lau.edu*](mailto:@karem.alaridi@lau.edu)

*Loay Khodor*

[*@loay.khodor@lau.edu*](mailto:@loay.khodor@lau.edu)

*Reina Bitar*

[*@reina.bitar@lau.edu*](mailto:@reina.bitar@lau.edu)

*Sharif Fahes*

[*@sharif.fahes@lau.edu*](mailto:@sharif.fahes@lau.edu)

*A REPORT*

*Submitted to Dr. Ramzi Haraty in partial fulfillment of the requirements of the course “CSC375: Database Management Systems” in Computer Science*

*PHASE I*

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1. *Table of Contents*
2. *Introduction*

We feel obliged to present our ambitious venture "FAKHR Travels and Tours", as a substance which deals with any tour and travel requirement of our regarded clients at a worldwide level. Since commencement in 2016, FAKHR Travels and Tours has been wandering into new geographic fields and putting forth extreme effort to make the best arrangements accessible to its customers.

Apart from ticketing, we excel in designing tour packages, provide our customers with the best accommodation, build loyalty-based relationships with our dear customers, and offer a wide variety of sites to visit and trip programs.

FAKHR Travels and tours offer a wide range of travel-related services. Effective planning, building healthy relationships with our customers, anticipating difficulties/problems before they arise, and being able to resolve such obstacles are the reasons behind our success.

**Outbound Tourism Destinations**

Turkey - Armenia - Georgia - Malaysia - Maldives - Dubai - Abu Dhabi - Greece - Rome - Paris - Jordan - States - Canada - China - Tokyo - Moscow - Oslo - Nairobi - Berlin - Rio De Janeiro - Hawaii – Switzerland etc.

We also handle train and cruise ship bookings.

**Domestic Tourism Destinations**

Beirut - Cedars - Baalbeck - Barouk - Aaqoura - Faraya - Byblos - Tyre - Harissa - Bsharri - Tripoli etc.

**Naming - FAKHR**

FAKHR is a combination of its founder(s) & co-founder(s) initials. Co-founder Sharif **F**ahes, co-founder Karem Al **A**ridi, founder Loay **K**hodor, co-founder **H**asan Jaber, co-founder **R**eina Bitar, and thus the name FAKHR.



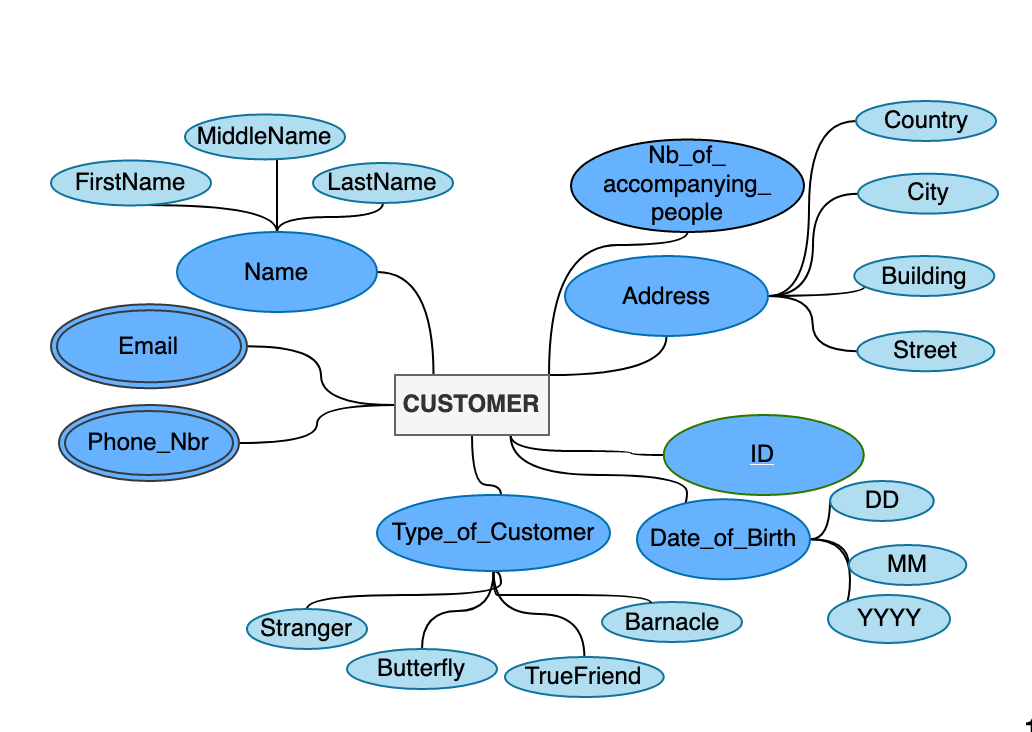
**Founded in 2016 Middle East, Beirut, Lebanon**  
FAKHR 2016-2020 ©. All rights reserved  
Terms of Use  
<https://www.termsofusegenerator.net/live.php?token=3wL0xFcYuH96S062zdUpFiT9JPaY0fHF>

1. *ER Diagram - FAKHR Tours Company*

<https://drive.google.com/file/d/1fe9ZAaFWhiSf8WqabpQjIuchOEQtg7hk/view?usp=sharing>

1. *Entities*

***1) CUSTOMER:***



A ***CUSTOMER***is an individual that purchases services offered by our company via financial transactions, monetary exchange, or some other valuable consideration This entity keeps track of a collection of information that is gathered from each individual who has benefitted from our services. Each customer can be identified by a unique **ID** which is considered the primary key of this entity.

**1) ID *(Primary Key)***

A 12-digit unique number given to each customer that distinguishes customers from each other.

**2) Name *(Composite Attribute)***

Composed of **firstName, middleName** and **lastName.**

**3) Address *(Composite Attribute)***

stores the **country**, **city**, **street** and **building** a customer resides in.

**4) Date\_of \_Birth *(Composite Attribute)***

stores the day **(DD)**, month **(MM)** and year **(YYYY)** the customer was born in.

5) **Nb\_of\_accompanying\_people**

The number of people accompanying the customer

**6) Type\_of\_Customer *(Composite Attribute)***

Customer types is a composite attribute consisting of 4 different types of customers.

Our company classifies customers into one of four relationship groups, according to their profitability and projected loyalty. Each group requires a different relationship management strategy.

**Stranger:** low y profitable and not loyal customers.

**Butterfly** potentially profitable but not loyal customers.

**TrueFriend** both profitable and loyal customers.

**Barnacle** highly loyal but not very profitable customers.

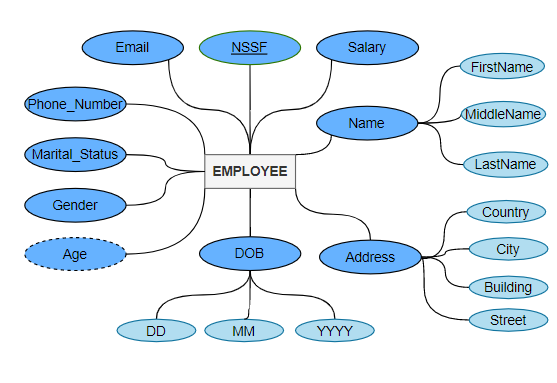
**7) Phone\_Nbr *(Multivalued)***

Stores the phone number of the customer, which facilitates communication between our employees and customer. More than 1 Phone Number could be registered.

**8) Email *(Multivalued)***

Stores the customer's email, which enables us to keep our customer up to date with the latest packages, deals, and services. In addition to his/her latest purchases made. Several emails could be registered

***2) EMPLOYEE:***



***EMPLOYEE*** is the 2nd main entity in this Database. Employee is the one that serves the customer through all the processes from booking tickets to choosing the Trip Programs and other stuff. Each employee is represented by a unique **NSSF** (primary key) that is given upon official employment. Moreover, each employee has several attributes including employee’s name (composite attribute), gender, address, date of birth, age (derived attribute), marital status, phone number, email, salary.

**1) NSSF *(Primary Key)***

A unique number given to each employee upon official employment.

**2) Name *(Composite Attribute)***

Composed of **firstName, middleName** and **lastName.**

**3) DOB*(Composite Attribute)***

Stores the day **(DD)**, month **(MM)** and year **(YYYY)** the employee was born in.

**4) Address *(Composite Attribute)***

stores the **country**, **city**, **street** and **building** an employee resides in.

**5) Gender**

Indicates the gender of the employee.

**6) Marital\_Status**

Indicates the marital status of the employee

**7)** **Age *(Derived Attribute)***

The age of an employee, derived from his/her Date of Birth

**8) Phone\_Number**

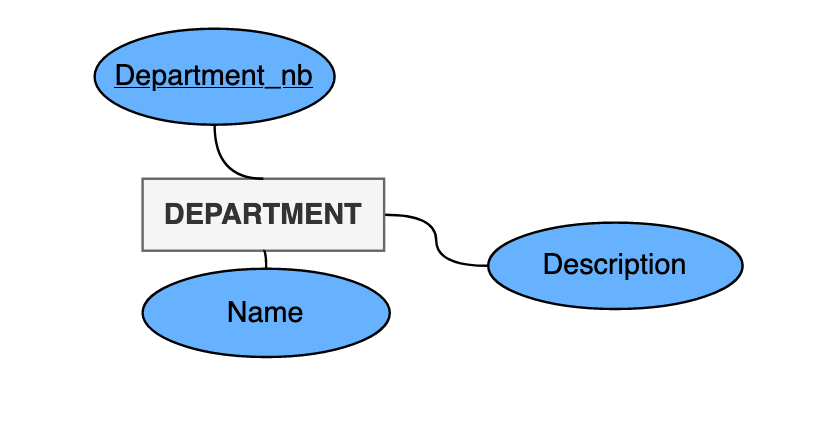
Stores the phone number of the customer, which facilitates communication between our employees and customer.

**9) Email**

Store the email of each employee.

**10) Salary**  
Monthly payment to an employee.

***3) DEPARTMENT:***



***DEPARTMENT*** is where employees are distributed upon in an effective and efficient way. As such, employees are categorized into organized sets that take specific tasks to ensure the company’s sustainability. Each department is portrayed by a unique **Department\_nb**.

**1) Deparment\_nb *(Primary Key)***

A unique number that distinguishes departments from each other.

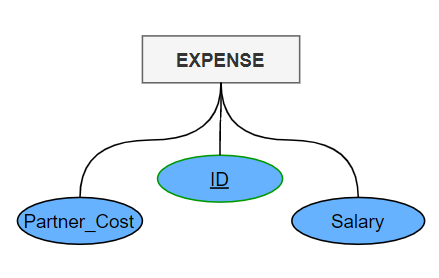
**2) Name:**

Name of the department.

**3) Description**

A text describing what the departments work and objectives are.

***4) EXPENSE:***



***EXPENSE*** is where all the costs of the company are found. Expenses may be called on behalf of the company as a whole or the employee. Each expense has a specific **ID** and contains salaries, contracts, partner cost, B&M as attributes.

**1) ID *(Primary Key)***

Each expense has a unique numeric.

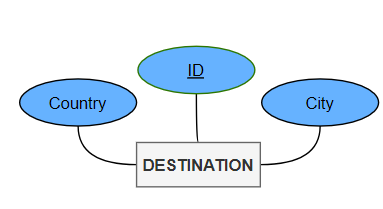
**2) Salary**

Employees' salaries (monthly payments).

**3) Partner\_Cost**

Includes the cost incurred by the partnership.

***5) DESTINATION:***



***DESTINATION***is the location to which our customer plans on heading to. This entity consists of the country and city the customer has in mind. Additionally, it has an **ID** as its primary key, which distinguishes destinations from each other (there may be 2 cities within the same country that have the same name).

**1) ID *(Primary Key)***

A unique number that distinguishes destinations from each other.

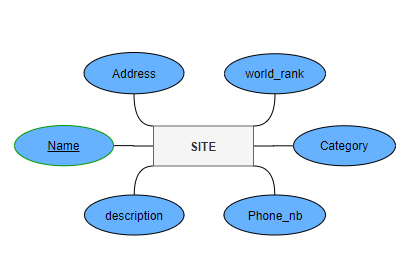
**2) Country**

Stores the country to which the customer plans to visit.

**3) City**

Stores the city within a country, to which the customer plans to visit

# ***6) SITE:***



In order to save time and facilitate the job of organizing a trip, our database includes an entity that shows all the famous ***SITE*** in a specific city. Each site has a unique **Name** (primary key) that differentiates it from other sites around the world.

**1) Name *(primary key)***

Each site has a unique alphanumeric that differentiates between sites.

**2) Category**

Specifies if this site is a restaurant, museum, tourist site, or mall.

**3) Phone\_nb**

Phone number to contact the site.

**4) Address**

# The address of the site within the city.

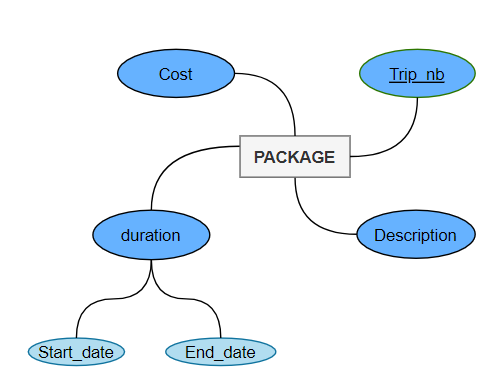
# **5) description**

# A text describing the site.

# ***6) world\_rank***

# Determines popularity of a site.

***7) PACKAGE:***



A ***PACKAGE***is a strategic way to attract customers. Packages are designed for customers in order to reduce costs and increase efficiencies. This entity has a **Trip\_nb** as its primary key.

**1) Trip\_nb *(Primary Key)***

A unique number associated with each package.

**2) Duration *(Composite Attribute)***

**Start\_date:** Date at which the package becomes available

**End\_date:** Date at which the packages offer ends

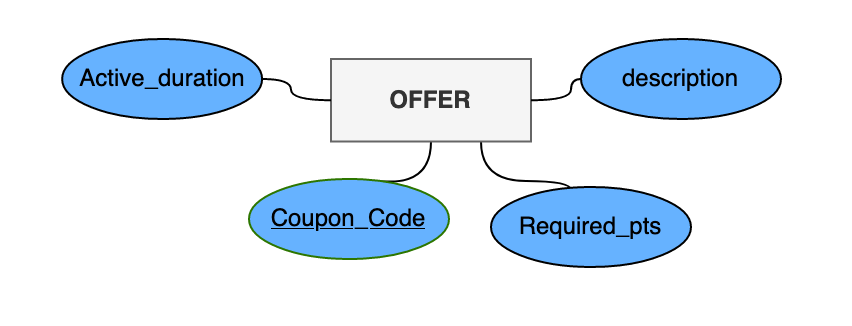
**3) Cost**

Stores the price of each package.

**4) Description**

A text that explains what the package includes such as activities, convenient arrangements/settlements and others, all designed to satisfy our customers.

# ***8) OFFER:***



We've constructed an ***OFFER*** entity because offers are an effective way to keep the customers motivated. For each offer, there is a unique number that can be redeemed called **Coupon\_Code** (primary key).

**1) Coupon\_Code (*Primary Key)***

A unique numeric generated for each offer.

**2) Active\_duration**

How long will the offer be available for. before it is disabled.

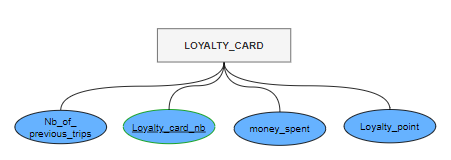
**3) description**

A text describing what each offer includes, and what type of customers are eligible for that offer.

4) **Required\_pts**

The required points needed to claim the offer.

# ***9) LOYALTY-CARD:***



The ***LOYALTY-CARD*** is a great way to show the customer that every penny that will be spent with us has value. Each Loyalty card has its own **Loyalty\_card\_nb** which serves as a unique primary key for our entity.

**1)** **Loyalty\_card\_nb *(Primary Key)***

Each loyalty card has a unique numeric which makes it different than other cards.

**2) Nb\_of\_previous\_trips**

Tracks down the number of previous trips a customer has purchased/been to.

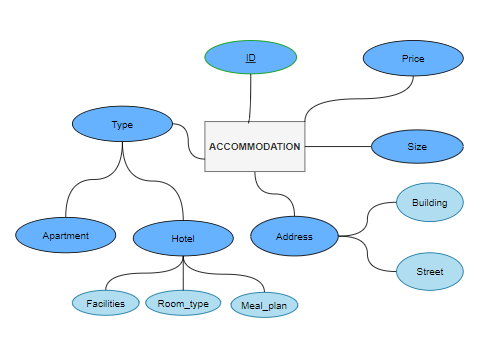
**3) money\_spent**

Stores the total amount of money that a customer has spent with us.

**4) Loyalty\_point**

Points are received depending on the purchase a customer has made. This money is transferred to a number of loyalty points which can be redeemed later for a numerous number of deals and discounts.

***10) ACCOMMODATION:***



One of the important parts of a trip is where the customer will feel relaxed staying in, which is why there’s ***ACCOMMODATION*** as an entity that is identified by its **ID**. Each customer chooses his/her suitable type of accommodation such that some may prefer a hotel while others prefer an apartment. If the customer favored staying at a hotel then they’ll have to specify three more attributes. The room type should be known since it differs according to the number of customers (suite, triple, double and single room). Moreover, each customer has a different meal plan which is why they should specify whether they want full board, half board, bed and breakfast, or all inclusive. Furthermore, every hotel should specify its facilities such as if they have a gym, pool, arcade, spa, playgrounds and more. Other attributes of the ACCOMMODATION are the price and size which are affected by the customers price range and preference. Finally, we have an address which specifies the area they’ll be staying in (building-street).

**1) ID *(Primary Key)***

Each accommodation is identified by a unique ID.

**2) Type *(Composite Attribute)***

**Apartment** A customer may decide to stay at an apartment.

**Hotel** A customer may decide to stay at a hotel, which consists of **Facility**, **Room\_type**,and **Meal\_plan.**

**3) Address *(Composite Attribute)***

Consists of **Building** and **Street** that the accommodation is in.

**4) Price**  
The amount of money to be paid for accommodations.

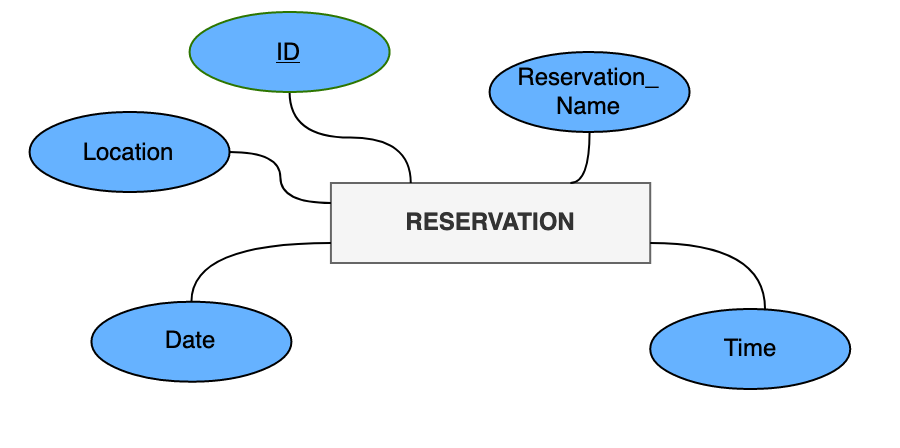
**5) Size**

Size of the apartment or hotel.

**6) Customer\_ID**

Used to determine which customer made what purchase.

***11) RESERVATION:***



Whether it is for a rare tourist site, restaurant, seasonal festival, or a museum, reservations play an important role in structuring your future trip. It would be unfortunate for you to travel to your destination just to realize your intended site does allow walk-ins and we also understand that scheduling ahead can also be a hassle. This is where we step in to do it for you!

For this purpose, our database contains a ***RESERVATION***entity. This entity keeps track of each booking we do on your behalf and has **ID** as its primary key. Reservation\_Name, Location, Date, Time, Bill

**1) ID *(Primary Key)***

A unique numeric that differentiates reservations.

**2) Reservation\_Name**

Name of the reservation.

**3) Location**

Includes the location of the reservation.

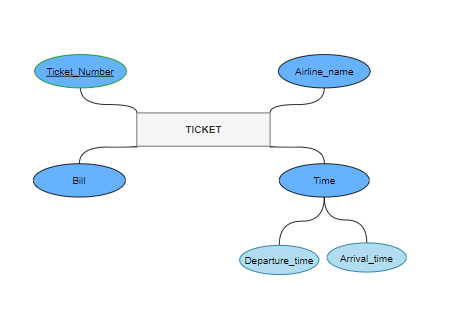
**4) Date\_**

The date the reservation was made on——.

**5) Time**

The date reserved and time.

***12)TICKET:***



As the saying goes, “it’s the journey that counts, not the destination.” and whether you are traveling by airplane, train, or cruise ship, we are here to find and book you the ticket for the transportation that suits your expectations. The **TICKET** entity includes the attributes **Ticket\_Number** (PK), Airline Name, Time, Date, and Bill.

**1) Ticket\_Number (*Primary Key)***

A unique numeric generated for each ticket.

**2) Time *(Composite Attribute)***

**Departure\_time** The time at which the airplane departs from the destination to home country

**Arrival\_time** The time at which the airplane arrives to the destination.

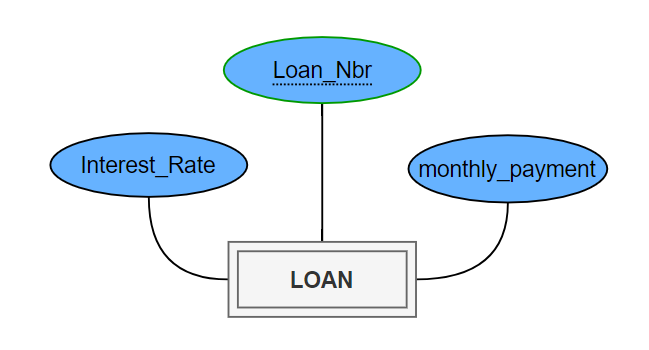
***3)* Airline\_name**

The airline providing the air transport service

**4) Bill**

The amount of money paid.

***13) LOAN:***



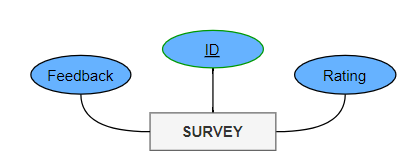
A ***LOAN***is a promissory note offered by a lender to a borrower (customer). This entity is a **weak** entity with **Loan\_Nbr** as its partial key.

**1) Loan\_Nbr *(Partial Key)***  
A unique identification number used to approve a loan. A customer who has borrowed a loan would be asked for it if they need to get in touch about a specific purchase.

**2) Interest\_rate**  
The interest rate is the percentage charged on the total amount loaned.

**3) monthly\_payment**  
The amount the borrower promised to pay back to lender each month.

***14) SURVEY:***



***SURVEY*** is the entity dedicated to clients in order to submit their responses. Each survey is identified with unique **ID** and contains the rating, complaints, recommendations and feedback as attributes.

**1) ID *(Primary Key)***

Each survey is identified with a unique numeric.

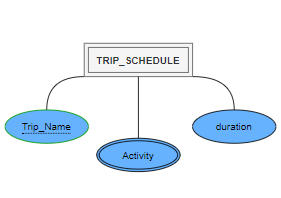
**2) Rating**

Customers rating of our services on a scale of 1-10.

**3) Feedback**

Includes, customers complaints, recommendations, and overall impression.

# ***15) TRIP\_SCHEDULE:***



Because we need each trip to be organized and elegant as much as possible, we've added the ***TRIP\_SCHEDULE*** entity. This entity depends on the ***PACKAGE*** (strong entity) and has **Trip\_Name** as a **weak** key attribute. The activity specifies what we are going to do each day. Additionally, this entity has a multivalued **Activity** and a simple attribute duration that tracks down the time that each activity should take.

**1) Trip\_Name *(Partial Key)***

Each trip has a different name.

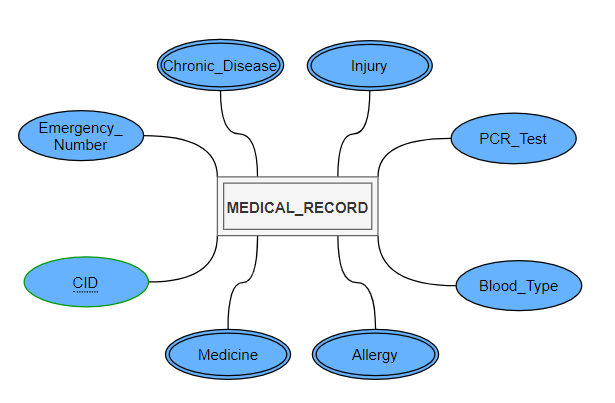
**2) Activity *(Multivalued)***

*Each trip has multiple activities.*

**3) duration**

Estimates made about the duration of each activity in the trip program.

***16) MEDICAL\_RECORD:***



At our agency, the chief priority is for you to have the best possible experience with little to worry about. If you are on a holiday and the unexpected happens, travel insurance becomes crucial and lifesaving. But no one wants to be thinking of accidents or emergencies while planning their holiday, which is why we take care of your insurance for you as soon as you fill in your ***MEDICAL\_RECORD***. The medical record **weak** entity is classified with the primary key **CID** and represents all the health information related to our customers.

**1) CID *(Partial Key)***

A unique numeric generated for every medical record.

**2) Medicine *(Multivalued)***

Records medicine a customer is on or is required to take. More than 1 medicine could be prescribed.

**3) Allergy *(Multivalued)***

Records any allergy a customer has. More than 1 allergy could be recorded.

**4) Injury *(Multivalued)***

Records any injury the customer has. More than 1 injury could be recorded.

**5) Chronic\_Disease *(Multivalued)***

Specifies what chronic diseases a customer has. More than 1 could be registered.

**6) Blood Type**

Determines the customers blood type.

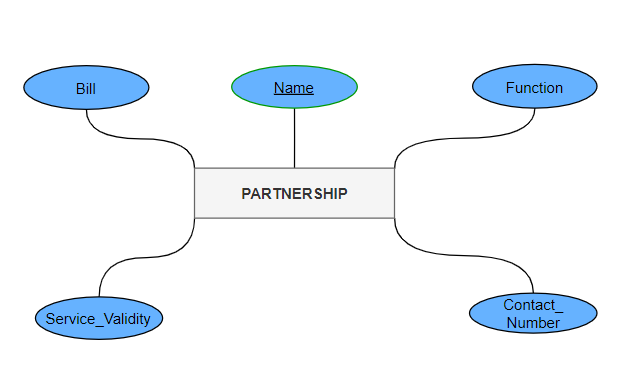
**7) PCR\_Test**

Determines whether the customer tested positive or negative for Covid-19.

**8) Emergency\_Number**

Phone number to contact in case of an emergency.

***17) PARTNERSHIP:***



To give you a satisfactory experience in your holiday, we partner with other companies and agencies for services such as transportation and tour guides in your destination. Our optional ***PARTNERSHIP***is there for you to make sure you get the most out of your stay and to make you sure you get to move around at ease. The Partners Entity comprises of the attributes: **Name** as its primary key, Function, Contact Number, Service Validity, and Bill.

**1) Name *(Primary Key)***

Each partner has a unique name.

**2) Function**

Duties of a partner in a partnership.

**3) Contact\_Number**

Number to contact the wanted partner.

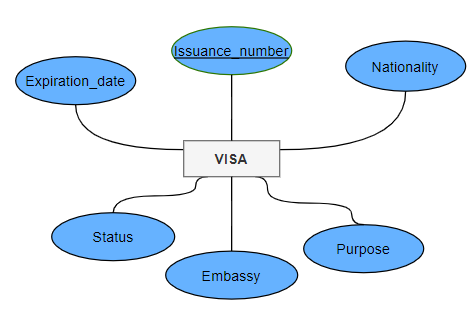
**4) Service\_Validity**

The availability of partners services.

**5) Bill**

The amount of money to pay.

***18)VISA:***



A ***VISA***is needed in order to be allowed to travel to certain countries. This entity has a primary key **Issuance\_number** which identifies it. Furthermore, it has the name of the client, gender, nationality, age, purpose and embassy. These attributes are the information used to apply for the visa. In addition to that, there’s also the status and expiration date. They specify whether the visa got accepted or rejected and for how long is it valid.

**1) Issuance\_number *(Primary Key)***

Each visa has a unique issuance number.

***2)* Age *(Derived Attribute)***

The age of the client. Derived from Customer entity.

**3) Name\_of\_Client *(Derived Attribute)***

Name of the client.

**4) Gender *(Derived Attribute)***

Gender of the client

**5) Expiration\_date**

The time at which the visa becomes expired.

**6) Status**

Determines whether the visa got accepted or rejected

**7) Embassy**

The embassy that issued the visa.

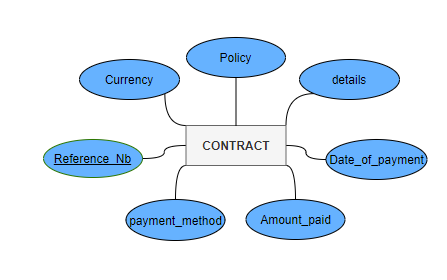
**8) Nationality**

Nationality of the visa holder.

**9) Purpose**

Allows visa holder to legally enter a foreign country.

***19) CONTRACT***



A ***CONTRACT*** is intended to provide specific, actionable requirements and legal protection for the customer and the company. It includes all the purchase information made by the customer, and also validates his purchases. The contract entity has a **Reference\_Nb** as its primary key

**1) Reference\_Nb *(Primary Key)***

Every contract has a unique numeric which is its reference number.

**2) Currency**

The currency that the payment will be made in.

**3) Payment\_method**

The payment method that the customer will pay in (cash, credit card, loan...)

**4) Amount\_paid**

The amount the customer must pay.

**5) Date\_of\_payment**

The day that the payment was made and the contract signed.

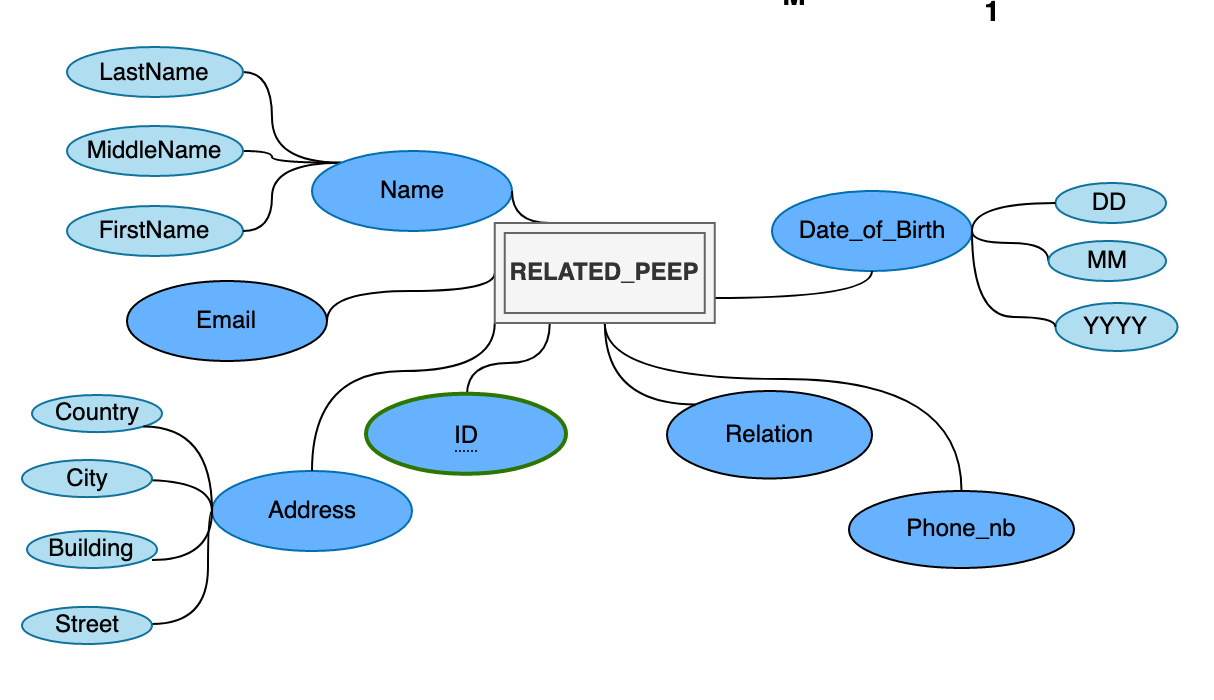
**6) details**

The contract includes all the information that the customer needs.

**7) Policy**

The policy that the customer agrees to abide by and signs to.

***20) RELATED\_PEEP:***



Most of the time, customers have a group which they would like to be accompanied by. ***RELATED\_PEEP*** is a **weak** entity which represents a certain group. A related person has an IDas a Partial key. It has name, address, and Date\_of\_Birth as composite attributes.

**1)** A unique numeric given to each related peep.

**2) Name *(Composite Attribute)***

Composed of **firstName, middleName** and **lastName.**

**3) Address *(Composite Attribute)***

stores the **country**, **city**, **street** and **building** a customer resides in.

**4) Date\_of \_Birth *(Composite Attribute)***

stores the day **(DD)**, month **(MM)** and year **(YYYY)** the customer was born

**5) Email**

Email of the related one.

**6) Phone\_nb**

Phone number of the related one

**7) Relation**

Identifies whether a person is a friend or family member to the customer.

# *Relations:*

1) HasA1



Every **CUSTOMER** travelling through our services is issued a **TICKET** that confirms his/her seat in any means of transportation, which enables them to obtain a boarding pass at the airport. Therefore a “**Has A1**” relation exists between the **CUSTOMER** entity and the **TICKET** entity. There exists a 1:1 relationship between the two entities since each **CUSTOMER** will need 1 **TICKET**, and this 1 **TICKET** belongs to only 1 **CUSTOMER**.

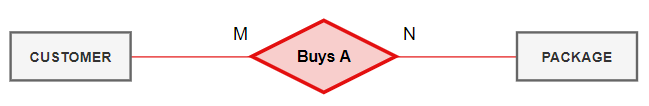
Each **CUSTOMER** “**Has A1**” one **TICKET** and each **TICKET** belongs to exactly one **CUSTOMER**. The participation is total because everyone will definitely get a **TICKET** after their purchase.

2) Has A2



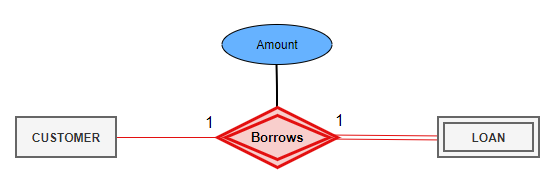
Whenever a new **CUSTOMER** purchases from our services, he/she receives a **LOYALTY-CARD**. The **LOYALTY-CARD** is a great way to show the **CUSTOMER** that every penny that will be spent with us has value. Henceforth, a “**Has A2**” relation must be created between the **CUSTOMER** entity and the **LOYALTY-CARD** entity. Each **CUSTOMER** receives 1 **LOYALTY-CARD**, so a total 1:1 relationship exists between the two entities.

3) Buys A



If customers are looking for efficient and satisfactory bundles/offers, they may want to buy a **PACKAGE**. So, a “Buys A” relation exists between the **CUSTOMER** entity and the **PACKAGE** entity. Note that a **PACKAGE** is offered to individuals and/or groups/families, so a M:N relation exists between the two, since a group of customers may buy many packages.The participation is partial because some customers may not be interested in buying packages.

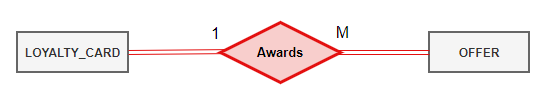
4) Borrows



Some **CUSTOMERS** may pay us through a **LOAN**, so a **CUSTOMER** “Borrows” a **LOAN**. The participation is partial from the customers side since not all customers may need to borrow a **LOAN**. A 1:1 relation is existing between the **CUSTOMER** entity and the **weak** entity **LOAN**, because one **CUSTOMER** borrows one **LOAN**.

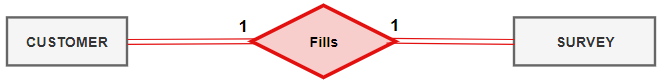
**Amount**: The amount which the **CUSTOMER** borrowed from a lender.

5) Awards



Through a **LOYALTY\_CARD**, a **CUSTOMER** obtains loyalty points after each purchase, and thus can purchase an **OFFER**. In other words, a **LOYALTY\_CARD** "Awards" an **OFFER**. A total 1:M relation exists between the two since one **LOYALTY\_CARD** “Awards” a wide variety of offers depending on how many loyalty points a **CUSTOMER** obtains. The participation is total since all loyalty-cards award all the different offers.

6) Fills



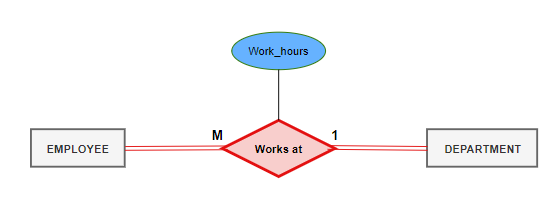
**CUSTOMER**’s opinion and suggestion is taken seriously in our company. As a result, “Fills” is a relationship between **CUSTOMER** and **SURVEY** entities. In other words, after each trip every **CUSTOMER** is encouraged to fill a **SURVEY** where it is considered a (1:1) relationship. Moreover, a total participation exits on both sides, since each **CUSTOMER** has to fill a **SURVEY** and each **SURVEY** must be filled by a **CUSTOMER**.

7) Accompanies



Because the **CUSTOMER** may want to travel with his family or friends, an “Accompanies” relation has been created between **CUSTOMER** entity and **RELATED\_PEEP** entity. There is a total participation on the first side because each of the listed **RELATED\_PEEP** should accompany the **CUSTOMER** and a partial participation from the other side since a **CUSTOMER** might travel individually. Additionally, many people might accompany the **CUSTOMER**, hence, the Accompanies relationship must have a one to many (1:M) relation.

8) Works at



In order to know which **DEPARTMENT** each **EMPLOYEE** belongs to, a “Works at” relation exists between **EMPLOYEE** and **DEPARTMENT**. All **EMPLOYEEs** work at a specific **DEPARTMENT;** therefore, the relation is (M:1). Furthermore, each of our **EMPLOYEE** must be working at one of the **DEPARTMENTs**, and a must include at least 1 **EMPLOYEE**, hence, there is a total participation at both sides.

**Work\_hours** Employees work hours at the department.

9) Serves



The comfort of our customers is one of the main priorities in FAKHER Travel. Hence a “Serves” relationship has been created between the **CUSTOMER** and the **EMPLOYEE** entities. Each **EMPLOYEE** serves one or more **CUSTOMER** thus a (1:M) relationship exists between them. Moreover, all customers are being served by our employees and thus a total relation is established.

10) Manages\_1



To ensure our company is as organized as possible, we have constructed a “Manages\_1” relation between **EMPLOYEE** and **DEPARTMENT**. This helps us keep the work smooth and successful. Moreover, there is one **EMPLOYEE** among the employees who manages one **DEPARTMENT** so this relation must be (1:1). A partial participation exists from one side since not every employee should manages a department while a total participation exits from the other side because every department should be managed by an employee.

11) Manages\_2:



Expenses should be managed in order to stay organized and prevent any issues. Thus, **DEPARTMENT** "Manages\_2" **EXPENSE** has a (1:1) relation since one department can manage its expenses. Moreover, each department has its own expenses so it’s a total participation; meanwhile, some expenses aren’t for all the departments so it’s partial.

12)Designs



In order to help customers with finding their perfect trip, we have a **DEPARTMENT** that “designs” many **PACKAGEs** (1:M). A department designs different types of packages to please all their customers. Customers can search through many packages for what they aim to explore throughout their trip. Each package is designed by a department, so it is total; however, not all departments design all the packages, so it is partial.

13)Includes1



Customers can't just go and stay at a hotel or an apartment for a few days, reservations are required in advance. Therefore, we have this (1:1) “Includes1” relation between **ACCOMODATION** and **RESERVATION**. Every accommodation needs to include a reservation thus it’s a total participation, whereas not every reservation has to be for an accommodation so it’s partial.

14)Belongs\_to



Most of the trips are with a large group of people, and not all sites have room for a lot of customers. For this reason, we have a **RESERVATION** entity that “Belongs\_to” **SITE** entity. We can have many reservations for the same site, so they have an (M:1) relation. Furthermore, all sites may belong to a reservation so it’s a total participation and reservation is a partial participation on the other hand.

15)Reserves:



Some places require reservations in advance, so we have the two entities **EMPLOYEE** and **RESERVATION**. Many employees can “reserve” many reservations, so they have an (M: N) relation where it’s partial since not all the employees are in charge of reserving but all reservations are made by an employee so it’s a total participation on this side.

16)Has A3:



The packages offered by our company includes a schedule for the customers, so we have the two entities **PACKAGE** and **TRIP\_SCHEDULE**. All packages have trip schedule created to rely on. As such, they have a (1:1) “Has A3” relation. This relation is also partial on one side since all packages need to have a trip schedule, but it is not a must for a trip schedule to be implemented in a package.

17)Includes2



Each destination includes multiple **ACCOMMODATION** for the customer. Therefore, have the two entities **DESTINATION** and **ACCOMMODATION** that has the relation “Includes2”, where each **DESTINATION** includes multiple of accommodations. As such, they have a (1:M) relation. This relation is also partial on one side since all accommodations are included in destinations but not necessarily that all destinations have an **ACCOMMODATION**.

18)Cooperates



For a successful work, each **DEPARTMENT** may cooperate with set of partners to ensure the best quality. Therefore, we have the two entities **PARTNER** and **DEPARTMENT** that has the relation “Cooperates”, where multiple partners can work along with our departments, but only 1 department may join forces with a specific partner .As such, they have a (M:1) relation. This relation is totally partial since not all partners will be working with all departments and vice versa.

19)Has A4



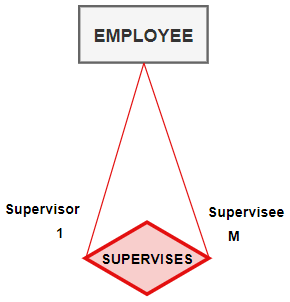
Packages have multiple reservations. Therefore, we have the two entities **PACKAGE** and **RESERVATION** where one package may contain many reservations. As such, they have a (1:M) “Has A4” relation. This relation is also partial on one side since not all packages have a reservation.

20)Needs



Each trip to a certain destination may “need” a visa. Therefore, we have the two entities **VISA** and **DESTINATION** such that one **VISA** may be needed for a one or more **DESTINATION**, example: Schengen visas. So, they have a (1:M) relation. This relation is also partial on one side since all visas need a certain destination, but some destinations may be accessed only through the customer’s passport.

21)Supervises



Each group of employees has one employee that “supervises" their work. Specific employees with previous experience have the authority to supervise new **EMPLOYEE** in order to ensure the best quality out of their work. As such the entity **EMPLOYEE** has a self-referencing relationship where not all employees are supervisors to supervisees. Thus, they have a (1:M) relation.

22)Has A5



Every one of the **RELATED\_PEEP** accompanying the Customer is also issued their own **TICKET** that guarantees their seat in any means of transportation they choose. Hence a 1:1 relation “**Has A5**” exists between the **RELATED\_PEEP** weak entity and the **TICKET** entity. The participation is total because each individual will receive one **TICKET** after the main customer makes the purchase.

23)Has A6



To ensure the safety of our **CUSTOMER** and to abide by our ethical code, we take care of the process of applying for travel insurance policies on their behalf. This includes trip cancellation or interruption coverage, baggage and personal effects coverage, and most importantly, medical coverage. Therefore, we require each **CUSTOMER** to have their own **MEDICAL\_RECORD** that we can send to the insurance company to issue the policies for them and their accompanying peeps. Thus a 1:1 partial relation “Has A6” exists between the **CUSTOMER** and the **MEDICAL\_RECORD** entities.

24) Signs



Once the **CUSTOMER** finalizes planning and discussing the package details with their respective employee, the time comes to make the trip official and sign the dotted lines. Signing the **CONTRACT** represents the confirmation for our company to start working on creating the best experience the **CUSTOMER** can have. Hence a 1:1 relation “Signs” exists between the **CUSTOMER** entity and the **CONTRACT** entity to fulfil this requirement.

25) Contains



After the **CUSTOMER** chooses his/her **DESTINATION**, they’ll reserve sites within that **DESTINATION**. Henceforth, a “Contains” relation exists between **DESTINATION** and **SITE**. The relation is 1:M since 1 **DESTINATION** contains many sites. The participation is total from the **DESTINATION** side since all destinations contain sites whereas not all sites are included in a **DESTINATION.**

1. *ER to Relational Mapping:*

After designing the ER schema and having displayed the database for FAKHR Travels and Tours as a system of entities, attributes, and relationships, this high-level design must be translated into a relational database design. In order to map the ER design to a relational database design, a seven-step algorithm needs to be followed. The following is a detailed description on applying the different steps to our database design.

**STEP 1: Mapping of Regular Entity Types**

In the first step, the regular entity types must be mapped into relations. Each regular entity is going to have its own relation that includes all of its simple attributes and a single primary key which is underlined. The regular (strong) entities in this database design for FAKHR Travels and Tours are: ***CUSTOMER, EMPLOYEE, DEPARTMENT, EXPENSE, DESTINATION, SITE, PACKAGE, OFFER, LOYALTY\_CARD, ACCOMMODATION, RESERVATION, TICKET, SURVEY, PARTNERSHIP, VISA*** and ***CONTRACT.***

1. **CUSTOMER**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **FirstName** | **MiddleName** | **LastName** | **Country** | **City** | **Building** | **Street** |
| **DD** | **MM** | **YYYY** | **Nb\_of\_**  **Accompany**  **\_people** | **Stranger** | **Butterfly** | **TrueFriend** | **Barnacle** |

The **CUSTOMER** entity contains simple, composite and multivalued attributes. The multivalued attributes **Phone\_Nbr** and **Email** are not represented in this relation. This relation only includes all simple attributes and the primary key **ID** which is underlined. The **CUSTOMER** entity has Nb\_of\_accompany\_people as simple attribute while **Name, Address, Date\_of\_Birth** and **Type\_of\_Customer are** composite attributes so we included **FirstName, MiddleName, LastName, Country, City, Building, Street, DD, MM, YYYY, Stranger, Butterfly, TrueFriend, and Barnacle** in the relation.

1. **EMPLOYEE**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NSSF** | **Gender** | **Phone**  **\_Number** | **Marital** **\_Status** | **Email** | **Salary** | **FirstName** | **MiddleName** |
| **LastName** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |

The **EMPLOYEE** entity contains simple, composite, and derived attributes. This relation only includes all simple attributes and has the underlined attribute **NSSF** the primary key. The **EMPLOYEE** entity has **Name, Address, Date\_of\_Birth** ascomposite attributes of which the simple attributes **FirstName, MiddleName, LastName, Country, City, Building, Street, DD, MM, and YYYY** are included in the relation.

1. **DEPARTMENT**

|  |  |  |
| --- | --- | --- |
| **Department\_nb** | **Description** | **Name** |

The **DEPARTMENT** entity contains simple and composite attributes. This relation includes all simple attributes and the primary key **Department\_nb** as its primary key.

1. **EXPENSE**

|  |  |  |
| --- | --- | --- |
| **ID** | **Salary** | **Partner\_Cost** |

The **EXPENSE** entity contains simple attributes and a primary key **ID.** The **EXPENSE** entity has **Salary** and  **Partner\_Cost**  as simple attributes included in this relation.

1. **DESTINATION**

|  |  |  |
| --- | --- | --- |
| **Id** | **Country** | **City** |

The **DESTINATION** entity contains simple attributes and the underlined attribute **ID** which functions as a primary key. The **DESTINATION** entity has **Country** and **City** as simple attributes included in this relation.

1. **SITE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Address** | **City** | **world\_rank** | **Category** | **Phone\_nb** | **description** |

The **SITE** entity contains simple attributes and the underlined attribute **Name** which operates as a primary key. The **SITE** entity also has **Address**, **City, world\_rank, Category, Phone\_nb,** and **description** as simple attributes included in this relation.

1. **PACKAGE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trip\_nb** | **Cost** | **Description** | **Start\_date** | **End\_date** |

The **PACKAGE** entity contains simple and composite attributes. This relation only includes all simple attributes and the primary key **Trip\_nb** as its primary key. The **PACKAGE** entity has **Duration** as a composite attribute of which **Start\_date** and **End\_date** are included in the relation. In addition to **Cost**, and **Description.**

1. **OFFER**

|  |  |  |  |
| --- | --- | --- | --- |
| **Coupon\_Code** | **Active\_duration** | **description** | **Required\_pts** |

The **OFFER** entity contains simple attributes and a primary key **Coupon\_code.** The **OFFER** entity has **Active\_duration, description,** and **Required\_pts** as simple attributes included in this relation.

1. **LOYALTY\_CARD**

|  |  |  |  |
| --- | --- | --- | --- |
| **Loyalty\_card\_nb** | **money\_spent** | **Nb\_of\_previous\_trips** | **Loyalty\_point** |

The **LOYALTY\_CARD** entity contains simple attributes and the underlined attribute **Loyalty\_card\_nb** which functions as a primary key. The **LOYALTY\_CARD** entity has **Money\_spent, Nb\_of\_previous\_trips,** and **Loyalty\_point** as simple attributes included in this relation.

1. **ACCOMMODATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Price** | **Size** | **Building** | **Street** |
| **Apartment** | **Facility** | **Room\_type** | **Meal\_plan** |  |

The **ACCOMMODATION** entity contains simple and composite. This relation only includes all simple attributes and the primary key **ID** which is underlined. The **ACCOMMODATION** entity has a composite attribute **Address** which has **Building** and **Street** as simple attributes.Moreover, this entity has another composite attribute **Type** which has attributes **Apartment** and **Hotel** with three simple attributes **Facility**, **Room\_type**, and **Meal\_plan**.

1. **RESERVATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Reservation\_Name** | **Time** | **Date** | **Location** |

The **RESERVATION** entity contains simple attributes. This relation only includes all simple attributes and the primary key **ID** as its primary key. The **RESERVATION** entity has **Reservation\_Name** , **Time**, **Date** and **Location**.

1. **TICKET**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ticket\_Number** | **Bill** | **Airline\_Name** | **Arrival\_time** | **Departure\_time** |

The **TICKET** entity contains simple and composite attributes. This relation only includes all simple attributes and the primary key **Ticket\_Number** as its primary key. The **TICKET** entity has **Time** as composite attributes of which **Arrival\_time** and **Departure\_time** are included in the relation. In addition to **Bill**, and **Airline\_Name.**

1. **SURVEY**

|  |  |  |
| --- | --- | --- |
| **ID** | **Rating** | **Feedback** |

The **SURVEY** entity contains simple attributes. This relation only includes all simple attributes and the primary key **ID** as its primary key. The **SURVEY** entity has **Rating**, and **Feedback**.

1. **PARTNERSHIP**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Function** | **Bill** | **Contact\_Number** | **Service\_Validity** |

The **PARTNERSHIP** entity contains simple attributes and the underlined attribute **Name** which functions as a primary key. The **PARTNERSHIP** entity has **Function, Bill, Conctact\_number, and Service\_validity** as simple attributes included in this relation.

1. **VISA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issuance\_Number** | **Expiration\_Date** | **Status** | **Embassy** | **Purpose** | **Nationality** |

The **VISA** entity contains simple attributes and the underlined attribute **Issuance\_Number** which functions as a primary key. The **VISA** entity has **Expiration\_Date, Status, Embassy, Purpose,** and **Nationality** as simple attributes included in this relation.

1. **CONTRACT**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Reference\_Nb** | **Currency** | **Policy** | **details** | **Date\_of\_payment** | **Amount**  **\_paid** | **Payment**  **\_method** |

The **CONTRACT** entity contains simple attributes and a primary key **Reference\_Nb.** The **CONTRACT** entity has **Currency, Policy, details, Date\_of\_Payment, Amound\_Paid, payment\_method** as simple attributes included in this relation.

**STEP 2: Mapping of Weak Entity Types**

In this step, the **weak** entity types are mapped into relations. As in Step 1, only the simple attributes are included in the relations and not multivalued or derived attributes. Furthermore, **weak** entity relation has a foreign key attribute which is the primary key of the owner entity type. The combination of the foreign key added, and the partial key of the **weak** entity type represent the primary key of the relation. The **weak** entities in our database design are: **LOAN, TRIP\_SCHEDULE, MEDICAL\_RECORD, RELATED\_PEEP.**

1. **LOAN**

|  |  |  |  |
| --- | --- | --- | --- |
| **Loan\_Nbr** | **Cust\_ID** | **Interest\_Rate** | **Monthly\_Payment** |

The **LOAN** is a weak entity which includes its simple attributes **Loan\_Nbr, Interest\_Rate,** and **Monthly\_Payment** besides a foreign key **Cust\_ID** that references the primary key ID to the owner entity **CUSTOMER.** Both the **Cust\_ID** and the **Loan\_Nbr** attribute act as a primary key for this relation.

1. **TRIP\_SCHEDULE**

|  |  |  |
| --- | --- | --- |
| **Trip\_Number** | **Trip\_Name** | **Duration** |

The **TRIP\_SCHEDULE is** a **weak** entity which includes its simple attribute **Duration. Trip\_Number** that belongs to the owner entity **PACKAGE.** Both **Trip\_Number** and **Trip\_Name** act as a primary key for this relation.

1. **MEDICAL\_RECORD**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MR\_id** | **CID** | **Blood\_Type** | **PCR\_Test** | **Emergency**  **\_Number** |

The **MEDICAL\_RECORD** entity is a **weak** entity, that belongs to the owner entity **CUSTOMER,** which includes as its primary **MR\_id** and **CID** and its simple attributes **Blood\_Type, PCR\_Test** **,** and **Emergency\_Number**.

1. **RELATED\_PEEP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PEEP\_ID** | **CID** | **Email** | **Phone\_nb** | **Relation** | **MM** | **YYYY** | **DD** |
| **FirstName** | **MiddleName** | **LastName** | **Country** | **City** | **Building** | **Street** |  |

The **RELATED\_PEEP** is a weakentity which contains simple and composite. This relation only includes all simple attributes and the partial key **PEEP\_ID** and the foreign key **CID**. The **RELATED\_PEEP** entity has **Name, Address, and Date\_of\_Birth** as composite attributes of which the simple attributes **FirstName, MiddleName, LastName, Country, City, Building, Street, DD, MM, and YYYY** are included in the relation. In addition, it has **Email, Phone\_nb,and Relation** as simple attributes.

**STEP 3: Mapping of Binary 1:1 Relation Types**

In this step, we are going to map the binary one-to-one relationships. In order to accomplish our goal, we can follow one of three approaches. The first approach, called foreign key approach is where we choose the entity on the total participation side of the relation, then we add as a foreign key the primary key of the other entity participating in this relation. The second approach, called merged relation approach is where we merge the two entities participating in the relationship into a single relation. This is only used when both participations are total The third approach, called cross-reference or relationship relation approach is where we create a third relation which will include the primary keys of both entities participating in the relationship. We are going to follow the Foreign Key and the Merged Relation approaches in our case. The binary one-to-one relationships that need to be mapped are: Has A1, Has A2, Borrows, Fills, Manages\_1, Manages\_2, Includes1, Has A3, Has A5, Has A6, Signs.

1. **CUSTOMER (Has\_A1)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Ticket\_Nb** | **First**  **Name** | **MiddleName** | **LastName** | **Country** | **City** | **Building** | **Street** |
| **DD** | **MM** | **YYYY** | **Nb\_of\_**  **accompany\_**  **people** | **Stranger** | **Butterfly** | **TrueFriend** | **Barnacle** |  |

Every **CUSTOMER** has a **TICKET**. The participation in this relation is total on both sides. Thus, it doesn’t matter which side of the relation we choose to include the foreign key in. We chose the **CUSTOMER** relation in which we added as a foreign key, the primary key of **TICKET**, which is **Ticket\_Number** and renamed it **Ticket\_Nb.**

1. **Has A2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMERID** | **CARD\_Nb** | **FirstName** | **MiddleName** | **LastName** | **Country** | **City** |
| **Building** | **Street** | **DD** | **MM** | **YYYY** | **Stranger** | **Butterfly** |
| **TrueFriend** | **Barnacle** | **Nb\_of** **\_previous** **\_trips** | **Loyalty** **\_point** | **Money** **\_spent** | **Nb\_of**  **-accompanying**  **-people** |  |

Each **CUSTOMER** has a **LOYALTY\_CARD**. The “Has\_A2” relationship links the **CUSTOMER** entity and the **LOYALTY\_CARD** entity. The participation on both sides is total. Therefore, we chose the merge approach in which we merged the attributes of the **CUSTOMER** and **LOYALTY\_CARD** entities into one relation named “Has A2”. “Has A2” relation has the primary key of the **CUSTOMER** entity **ID** as a primary key and the primary key of **LOYALTY\_CARD** **CARD\_Nb** as a candidate key besides the attribute of both entities.

1. **LOAN (Borrows)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Loan\_Nbr** | **Cust\_ID** | **Amount** | **Interest\_Rate** | **monthly\_payment** |

Some customers borrow a **LOAN**. The “Borrows” relationship links the **CUSTOMER** entity and the **LOAN** entity. The participation on the **weak** entity **LOAN** sideis total. Thus, we choose the **LOAN** relation to add to it as the foreign key, the primary key of **CUSTOMER**, which is **ID**, and renamed it **Cust\_ID.**

1. **Fills**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Customer\_ID** | **SID** | **FirstName** | **MiddleName** | **LastName** | **Country** | **City** |
| **Building** | **Street** | **DD** | **MM** | **YYYY** | **Nb\_of**  **\_accompanying**  **\_people** | **Stranger** |
| **Butterfly** | **TrueFriend** | **Barnacle** | **Rating** | **Feedback** |  |  |

Each **CUSTOMER** fills a **SURVEY**. The “Fills” relationship links the **CUSTOMER** entity and the **SURVEY** entity. The participation on both sides is total. Therefore, we chose the merge approach in which we merged the attributes of the **CUSTOMER** and **SURVEY** entities into one relation named “Fills”. “Fills” relation has the primary key of the **CUSTOMER** entity **Customer\_ID** as a primary key and the primary key of **SURVEY** **SID** as a candidate key besides the attribute of both entities.

1. **Department (Manages\_1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Department\_nb** | **Manager\_NSSF** | **Description** | **Name** |

Each **DEPARTMENT** has an **EMPLOYEE** who manages it. The “**manages\_1**” relationship links the **DEPARTMENT** entity and the **EMPLOYEE** entity. A total participation exists from the **DEPARTMENT** side which is why we chose to add the primary key of the **EMPLOYEE** **NSSF** as a foreign key in the **DEPARTMENT** relation and renamed it **Manager\_NSSF.**

1. **Department (Manages\_2)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Department\_nb** | **Expense\_ID** | **Description** | **Name** |

Each **DEPARTMENT manages** its own **EXPENSE**. The “manages\_2” relationship links the **DEPARTMENT** entity and the **EXPENSE** entity. A total participation exists from the **DEPARTMENT** side. Therefore, we chose to add the primary key of the **EXPENSE** entity **ID** as a foreign key in the **DEPARTMENT** relation and we renamed it **Expense\_ID.**

1. **ACCOMMODATION (Includes1)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Res\_ID** | **Price** | **Size** | **Building** |
| **Street** | **Apartment** | **Facility** | **Room\_type** | **Meal\_plan** |

**RESERVATION** may include **ACCOMMODATION** when the customer is filling out his form. The “Includes1” relationship links the **ACCOMMODATION** entity and the **RESERVATION** entity. The participation of theentity **RESERVATION** sideis partial. Therefore, we choose the primary key of **RESERVATION ID** and add it as a foreign key to therelation and renamed it **Res\_ID.**

1. **Has A5**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Ticket\_nb** | **CID** | **Peep\_id** | **Email** | **Phone\_nb** | **Relation** | **DD** |
| **MM** | **YYYY** | **First** **Name** | **Middle** **Name** | **Last** **Name** | **Country** | **City** |
| **Building** | **Street** | **Arrival** **\_time** | **Departure** **\_time** | **Airline** **\_Name** | **Bill** |  |

Each **RELATED\_PEEP** has a **TICKET**. The “Has\_A5” relationship links the **RELATED\_PEEP weak** entity and the **TICKET** entity. The participation on both sides is total. Therefore, we chose the merge approach in which we merged the attributes of the **RELATED\_PEEP** and **TICKET** entities into one relation named “Has A5”. “Has A5” relation has the primary key of the **TICKET** entity **Ticket\_nb** as a primary key and the primary key of **RELATED\_PEEP**  **Peep\_id** and **CID** a candidate key besides the attribute of both entities.

1. **MEDICAL\_RECORD (Has A6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **CustID** | **Emergency\_Number** | **Blood\_Type** | **PCR\_Test** |

Each **MEDICAL\_RECORD** is associated to a **CUSTOMER**. The “Has\_A6” relationship links the **MEDICAL\_RECORD** entity and the **CUSTOMER** entity. The participation on the **weak** entity **MEDICAL\_RECORD** sideis total. Therefore, we chose the **MEDICAL\_RECORD** relation in which we added as a foreign key, the primary key of **CUSTOMER**, which is **ID** and renamed it **CustID.**

1. **CONTRACT (Signs)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Reference\_Nb** | **CID** | **Currency** | **Policy** | **details** | **Date\_of**  **\_payment** | **Amount**  **\_paid** | **payment** **\_method** |

Every **CUSTOMER** signs a **CONTRACT**. The “Signs” relationship links the **CUSTOMER** entity and the **CONTRACT** entity. The participation in this relation is total on both sides. Thus, it doesn’t matter which side of the relation we choose to include the foreign key in. We chose the **CONTRACT** relation in which we added as a foreign key, the primary key of **CUSTOMER**, which is **ID** and renamed it **CID.**

**STEP 4: Mapping of Binary 1:N Relationship Types**

In this step, we are going to map the binary one-to-many relationships. We add a foreign key in the entity type at the many sides of the relationship. This foreign key is the primary key of the other entity type participating in this relationship. We must also include any other simple attribute of the one-to-many relationship. The one-to-many relationships that need to be mapped are: Awards, Accompanies, Works at, Serves, Designs, Belongs\_to, Includes2, Cooperates, Has A4, Needs, Supervises, Contains.

1. **OFFER (Awards)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coupon\_Code** | **LC\_NB** | **Active\_duration** | **description** | **Required\_pts** |

All loyalty card holders have several offers to choose from. The “Awards” relationship links the **LOYALTY\_CARD** entity with the **OFFER** entity. The **OFFER** entity is on the multiple (m) side. Therefore, we chose it to be the relation and added to it as a foreign key, the primary key of the **LOYALTY\_CARD** entity **Loyalty\_card\_nb** and renamed it **LC\_NB.**

1. **RELATED\_PEEP (Accompanies)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **CID** | **First**  **Name** | **Middle**  **Name** | **Last**  **Name** | **country** | **city** | **street** | **building** |
| **DD** | **MM** | **YYYY** | **Email** | **Phone\_nb** | **Relation** |  |  |  |

Because the **CUSTOMER** may want to travel with his family or friends, an “Accompanies” relation has been created between **CUSTOMER** entity and **RELATED\_PEEP** entity. The **RELATED\_PEEPS** entity is on the multiple (m) side since multiple people can accompany the **CUSTOMER** along the trip. Therefore, we chose it to be the relation and added to it as a foreign key, the primary key of the **CUSTOMER** entity **ID** and renamed it **CID.**

1. **EMPLOYEE (Works at)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NSSF** | **Dep** **\_nbr** | **Gender** | **Marital** **\_Status** | **Phone** **\_Number** | **Email** | **Salary** | **Work** **\_hours** | **FirstName** |
| **Middle** **Name** | **Last** **Name** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |

Many employees work at each department. The “Works\_at” relationship links the **EMPLOYEE** entity with the **DEPARTMENT** entity. The **EMPLOYEE** entity is on the multiple (m) side. Therefore, we chose it to be the relation and added to it, as a foreign key, the primary key of the **DEPARTMENT** entity **Department\_nb** and renamed it **Dep\_nbr**. Moreover, we add the attribute of the “Works\_at” relationship - **work\_hours** to the **EMPLOYEE** relation and we did not add age attribute to the relation because it is a derived attribute.

1. **CUSTOMER (Serves)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **SSCode** | **FirstName** | **MiddleName** | **LastName** | **Country** | **City** | **Building** | **Street** |
| **DD** | **MM** | **YYYY** | **Nb\_of**  **\_accompanying**  **\_people** | **Stranger** | **Butterfly** | **True**  **Friend** | **Barnacle** |  |

Each **EMPLOYEE** is tasked with serving multiple **CUSTOMER** making sure everything goes according to their expectations.The **CUSTOMER** entity is on the multiple (m) side. Therefore, we chose it to be the relation and added to it, as a foreign key, the primary key of the **EMPLOYEE** entity **NSSF** and renamed it **SSCode.**

1. **PACKAGE (Designs)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trip\_Nb** | **Dep\_nb** | **Cost** | **Description** | **Start\_date** | **End\_date** |

All packages are designed at a department. The “Designs” relationship links the **PACKAGE** entity with the **DEPARTMENT** entity. The **PACKAGE** entity is on the multiple (m) side. Therefore, we chose it to be the relation and added to it as a foreign key, the primary key of the **DEPARTMENT** entity **Department\_nb** and renamed it **Dep\_nb.**

1. **RESERVATION (Belongs\_to)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Site\_Name** | **Reservation\_Name** | **Location** | **Date** | **Time** |

Every destination has some accommodations. The “Belongs\_to” relationship links the **RESERVATION** entity with the **SITE** entity. The **RESERVATION** entity is on the multiple (m) side. Thus, we chose it to be the relation and added to it, as a foreign key, the primary key of the **SITE** entity **Name** and renamed it **Site\_Name**

1. **ACCOMMODATION (Includes2)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Dest\_ID** | **Price** | **Size** | **Apartment** |
| **Building** | **Street** | **Facility** | **Room\_type** | **Meal\_plan** |

Every destination has some accommodations. The “Includes2” relationship links the **ACCOMMODATION** entity with the **DESTINATION** entity. The **ACCOMMODATION** entity is on the multiple (m) side. Thus, we chose it to be the relation and added to it, as a foreign key, the primary key of the **DESTINATION** entity **ID** and renamed it **Dest\_ID.**

1. **PARTNERSHIP (Cooperates)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Dep\_ID** | **Function** | **Bill** | **Contact\_Number** | **Service\_Validity** |

Some departments have partnerships with other companies. The “Cooperates” relationship links the **DEPARTMENT** entity with the **PARTNERSHIP** entity. The **DEPARTMENT** entity is on the multiple (m) side. Thus, we chose it to be the relation and added as a foreign key, the primary key of the **DEPARTMENT** entity **Department\_nb** and renamed it **Dep\_ID.**

1. **RESERVATION (Has A4)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Trip\_Nbr** | **Reservation\_Name** | **Time** | **Date** | **Location** |

Packages have multiple reservations. The “Has A4” relationship links the **PACKAGE** and **RESERVATION.** The **RESERVATION** entity is on the “many” side. Thus, we add to its relation, as the foreign key, the primary key of the **PACKAGE** entity **Trip\_Nb**, and renamed it **Trip\_Nbr.**

1. **DESTINATION (Needs\_a)**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Issuance\_nb** | **Country** | **City** |

Each visa give access to one or more destination. “Needs” relationship links the **VISA** entity with the **DESTINATION** entity. Since the **DESTINATION** entity is on the “many” (m) sides, we chose it as a relation and added the primary key of the **VISA Issuance\_nb** as a foreign key.

1. **EMPLOYEE (SUPERVISES)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NSSF** | **Super** **\_NSSF** | **Gender** | **Marital** **\_Status** | **Phone** **\_Number** | **Email** | **Salary** | **First** **Name** | **Middle** **Name** |
| **Last** **Name** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |  |

Some employees need to be supervised and others are supervisors. The “Supervises” relationship links the **EMPLOYEE** entity with itself. We added to the **EMPLOYEE** entity, as a foreign key, its primary key **NSSF** and renamed it **Super\_NSSF.**

1. **SITE (Contains)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **DID** | **Address** | **World\_rank** | **category** | **Phone\_nb** | **description** |

A **DESTINATION** has multiple sites. The “Contains” relationship links the **DESTINATION** and **SITE** entities The **SITE** entity is on the “many” side. Thus, we add to its relation, as the foreign key, the primary key of the **DESTINATION** entity **ID**, and renamed it **DID.**

**STEP 5: Mapping of M:N Relationship Types**

In this step, we are going to map the binary many-to-many relationships. For each many-to-many relationship we are going to create a new relation which includes, as foreign keys, the primary keys of all participating relations. Their combination will form the primary key of this newly created relation. We must also include any other simple attribute of the many-to-many relationship. The many-to-many relationships needed to be mapped are: Bus A, Reserves.

1. **BUYS**

|  |  |
| --- | --- |
| **Trip\_nbr** | **Customer\_id** |

Both entities **PACKAGE** and **CUSTOMER** have M-N relationship linked by the relation “Buys”. We added to this relation the primary key of **PACKAGE** and **CUSTOMER** entities **Trip\_nbr** and I**d** as a foreign key in which we renamed **Id** to **Customer\_id**.

1. **RESERVES**

|  |  |
| --- | --- |
| **EmpNSSF** | **ResID** |

Both entities **EMPLOYEE** and **RESERVATION** have M-N relationship linked by the relation “Reserves”. This relation includes the foreign keys **EmpNSSF** and **ResID** renamed after the primary key of **EMPLOYEE** and **RESERVATION,** respectively. Both {**EmpNSSF**, **ResID**} form the primary key for “Reserves”.

**STEP 6: Mapping of Multivalued Attributes**

In this step, we are going to map the multivalued attributes which we ignored before. For each multivalued attribute we create a new relation containing the related attribute and the primary key of the entity to which it belongs. Their combination will represent the primary key of the newly created relation. We have six multivalued attributes which are: **Phone\_Nbr, Email, Medicine, Allergy, Injury, Chronic\_Disease.**

1. **PHONE\_NBR**

|  |  |
| --- | --- |
| **C\_Phone** | **C\_ID** |

The multivalued attribute **Phone\_Nbr** belongs to the **CUSTOMER** entity. To represent it we create the relation called “CUST\_PHONE”. Its primary key is composed of **C\_ID** the primary key of the **CUSTOMER** entity, and the attribute **C\_Phone** which represents the multiple phone numbers a **CUSTOMER** can register.

1. **CUST\_EMAIL**

|  |  |
| --- | --- |
| **C\_Email** | **C\_ID** |

The multivalued attribute **Email** belongs to the **CUSTOMER** entity. To represent it we create the relation called “CUST\_EMAIL”. Its primary key is composed of **C\_ID** the primary key of the **CUSTOMER** entity, and the attribute **C\_Email** which represents the multiple emails a **CUSTOMER** can register.

1. **MEDICINE**

|  |  |  |
| --- | --- | --- |
| **MR\_Medicine** | **Cust\_Id** | **Med\_Id** |

The multivalued attribute **Medicine** belongs to the **MEDICAL\_RECORD** entity. To represent it we create the relation called “MEDICINE”. Its primary key is composed of **Med\_Id and Cust\_Id** the primary key of the **MEDICAL\_RECORD** entity, and the attribute **MR\_Medicine** which represents the multiple Medicines a **MEDICAL\_RECORD** may contain.

1. **MED\_ALLERGY**

|  |  |  |
| --- | --- | --- |
| **MR\_Allergy** | **Cust\_Id** | **Med\_Id** |

The multivalued attribute **Allergy** belongs to the **MEDICAL\_RECORD** entity. To represent it we create the relation called “MED\_ALLERGY”. Its primary key is composed of **Med\_ID and Cust\_Id** the primary key of the **MEDICAL\_RECORD** entity, and the attribute **MR\_Allergy** which represents the multiple allergies a **MEDICAL\_RECORD** may contain.

1. **MED\_INJURY**

|  |  |  |
| --- | --- | --- |
| **MR\_Injury** | **Cust\_Id** | **Med\_Id** |

The multivalued attribute **Injury** belongs to the **MEDICAL\_RECORD** entity. To represent it we create the relation called “MED\_INJURY”. Its primary key is composed of **Med\_Id and Cust\_Id** the primary key of the **MEDICAL\_RECORD** entity, and the attribute **MR\_Injury** which represents the multiple injuries a **MEDICAL\_RECORD** may contain.

1. **MED\_CHRONIC**

|  |  |  |
| --- | --- | --- |
| **MR\_Chronic** | **Cust\_Id** | **Med\_Id** |

The multivalued attribute **Chronic\_Disease** belongs to the **MEDICAL\_RECORD** entity. To represent it we create the relation called “MED\_CHRONIC”. Its primary key is composed of **Med\_Id and Cust\_Id** the primary key of the **MEDICAL\_RECORD** entity, and the attribute **MR\_Chronic** which represents the multiple chronic diseases a **MEDICAL\_RECORD** may contain.

1. **TRIP\_ACTIVITY**

|  |  |  |
| --- | --- | --- |
| **TS\_Activity** | **TS\_Name** | **TS\_Number** |

The multivalued attribute **Activity** belongs to the **TRIP\_SCHEDULE weak** entity. To represent it we create the relation called “TRIP\_ACTIVITY”. Its primary key is composed of **TS\_Name and TS\_Number** the primary key of the **TRIP\_SCHEDULE** entity, and the attribute **TS\_Activity** which represents the multiple activities a **TRIP\_SCHEDULE** may contain.

**STEP 7:** **Mapping of N-ary Relationship Types**

In this step, we are going to map the N-ary Relationship types. We should create a new relation containing the primary keys of all participating entities and any simple attributes of the relationship type. In our design we have no N-ary relationship types, so this step is not applicable here.

1. *Relational Database Model (Full Diagram):*

<https://drive.google.com/file/d/1pFU0twg-aSo1KESWg1lFWZ--OoMuPOJx/view?usp=sharing>

1. *Table Structure for FAKHR Travels & Tours:*

After designing the ER diagram for FAKHR Travels & Tours and mapping this diagram into relational database design, now it is time to start creating the actual tables for our database on the Oracle Database Server. We will start by creating all tables and then inserting data into these tables. Finally, we will execute some queries to display the importance of the database.

1. **CUSTOMER**
2. **CREATE** **TABLE** CUSTOMER(
3. ID **CHAR**(8) **PRIMARY** **KEY**,
4. FirstName **VARCHAR**(15) NOT NULL,
5. MiddleName **VARCHAR**(15) NOT NULL,
6. LastName **VARCHAR**(15) NOT NULL,
7. Country **VARCHAR**(30) NOT NULL,
8. City **VARCHAR**(30) NOT NULL,
9. Building **VARCHAR**(15),
10. Street  **VARCHAR**(15),
11. DD  NUMBER(2) NOT NULL **CHECK**(DD>0 AND DD<=31),
12. MM  NUMBER(2) NOT NULL **CHECK**(MM>0 AND MM<=12),
13. YYYY  NUMBER(4) NOT NULL **CHECK**(YYYY>1900 AND YYYY<2003),
14. Accompanying\_people\_nbr **INT** NOT NULL **CHECK**(Accompanying\_people\_nbr>=0 AND  Accompanying\_people\_nbr<=30),
15. Stranger  NUMBER(1),
16. Butterfly  NUMBER(1),
17. TrueFriend  NUMBER(1),
18. Barnacle  NUMBER(1),
19. Ticket\_Nb  **CHAR**(8),
20. SSCode  **CHAR**(8),
21. **FOREIGN** **KEY**(Ticket\_Nb) **REFERENCES** TICKET (Ticket\_Number),
22. **FOREIGN** **KEY**(SSCode) **REFERENCES** EMPLOYEE (NSSF));
23. **EMPLOYEE**
24. **CREATE** **TABLE** EMPLOYEE (
25. NSSF **CHAR**(8),
26. Salary **INT** NOT NULL **CHECK**(Salary>0),
27. FirstName **VARCHAR**(8) NOT NULL,
28. MiddleName **VARCHAR**(8),
29. LastName **VARCHAR**(8) NOT NULL,
30. Country **VARCHAR**(8),
31. City **VARCHAR**(8),
32. Building **VARCHAR**(15),
33. Street **VARCHAR**(25),
34. DD **INT**,
35. MM **INT**,
36. YYYY **INT**,
37. Email **VARCHAR**(25) NOT NULL,
38. Phone\_Number **VARCHAR**(15) NOT NULL,
39. Martial\_Status **CHAR**(1),
40. Gender **CHAR**(1),
41. Super\_NSSF **CHAR**(8),
42. Dep\_Nbr **CHAR**(8),
43. **PRIMARY** **KEY** (NSSF),
44. **FOREIGN** **KEY** (Super\_NSSF) **REFERENCES** EMPLOYEE(NSSF),
45. **FOREIGN** **KEY** (Dep\_Nbr) **REFERENCES** DEPARTMENT(Department\_nb) );
46. **DEPARTMENT**
47. **CREATE** **TABLE** DEPARTMENT (
48. Department\_nb **CHAR**(8) NOT NULL,
49. Name **VARCHAR**(30) NOT NULL,
50. Description **VARCHAR**(200) NOT NULL,
51. Manager\_NSSF **CHAR**(8),
52. Expense\_ID **CHAR**(8),
53. **PRIMARY** **KEY**(Department\_nb),
54. **FOREIGN** **KEY**(Manager\_NSSF) **REFERENCES** EMPLOYEE (NSSF),
55. **FOREIGN** **KEY**(Expense\_ID) **REFERENCES** EXPENSE (ID));
56. **EXPENSE**
57. **CREATE** **TABLE** EXPENSE(
58. ID **CHAR**(8)  **PRIMARY** **KEY**,
59. Salary **INT**,
60. Partner\_cost **INT** NOT NULL);
61. **DESTINATION**
62. **CREATE** **TABLE** DESTINATION(
63. Id **CHAR**(8) **PRIMARY** **KEY**,
64. Issuance\_nb **CHAR**(8),
65. Country **VARCHAR**(15) NOT NULL,
66. City **VARCHAR**(15) NOT NULL,
67. **FOREIGN** **KEY** (Issuance\_nb) **REFERENCES** VISA (Issuance\_Number));

￼

1. **SITE**
2. **CREATE** **TABLE** SITE(
3. **Name** **VARCHAR**(100)  **PRIMARY** **KEY**,
4. Address **VARCHAR** (30) NOT NULL,
5. City **VARCHAR** (20) NOT NULL,
6. world\_rank NUMBER(3) ,
7. Category **VARCHAR**(15),
8. Phone\_nb **VARCHAR**(15),
9. description **VARCHAR**(200),
10. DID **CHAR** (8),
11. **FOREIGN** **KEY** (DID) **REFERENCES** DESTINATION (Id));
12. **PACKAGE**
13. **CREATE** **TABLE** PACKAGE (
14. Trip\_nb **char(8)**,
15. Description **VARCHAR**(20) NOT NULL,
16. Cost **INT** NOT NULL,
17. Start\_date **DATE**,
18. End\_date **DATE**,
19. Dep\_nbr **CHAR**(8),
20. **PRIMARY** **KEY** (Trip\_nb),
21. **FOREIGN** **KEY** (Dep\_nbr) **REFERENCES** DEPARTMENT(Department\_nb) );
22. **OFFER**
23. **CREATE** **TABLE** OFFER(
24. Coupon\_Code **CHAR**(8),
25. Active\_duration TIMESTAMP NOT NULL,
26. Description **VARCHAR**(100) NOT NULL,
27. Required\_pts **INT,**
28. LC\_NB **CHAR**(8),
29. **PRIMARY** **KEY**(Coupon\_Code),
30. **FOREIGN** **KEY**(LC\_NB) **REFERENCES** LOYALTY\_CARD (Loyalty\_card\_nb));
31. **LOYALTY\_CARD**
32. **CREATE** **TABLE** LOYALTY\_CARD(
33. Loyalty\_card\_nb **CHAR**(8) **PRIMARY** **KEY**,
34. money\_spent **INT**,
35. Nb\_of\_previous\_trips **INT**,
36. Loyalty\_points **INT**);
37. **ACCOMMODATION**
38. **CREATE** **TABLE** ACCOMMODATION (
39. ID **CHAR**(8) **PRIMARY** **KEY**,
40. Dest\_ID **CHAR**(8),
41. Res\_ID **CHAR**(8),
42. Price NUMBER(6,2) NOT NULL,
43. **Size** **VARCHAR** (15) NOT NULL,
44. Building **VARCHAR** (15),
45. Street **VARCHAR** (15),
46. Apartment **VARCHAR** (15) NOT NULL,
47. Facility **VARCHAR** (15) NOT NULL,
48. Room\_type **VARCHAR** (15) NOT NULL,
49. Meal\_Plan **VARCHAR** (15),
50. **FOREIGN** **KEY** (Dest\_ID) **REFERENCES** DESTINATION (Id),
51. **FOREIGN** **KEY** (Res\_ID) **REFERENCES** RESERVATION (ID));
52. **RESERVATION**
53. **CREATE** **TABLE** RESERVATION(
54. ID **CHAR**(8) **PRIMARY** **KEY**,
55. Reservation\_Name **VARCHAR**(15),
56. **Time** **TIMESTAMP** NOT NULL,
57. **Date\_** **DATE** NOT NULL,
58. Location **VARCHAR**(15) NOT NULL,
59. Trip\_Nbr **CHAR**(8),
60. Site\_Name **VARCHAR**(100),
61. **FOREIGN** **KEY** (Trip\_Nbr) **REFERENCES** PACKAGE(Trip\_nb),
62. **FOREIGN** **KEY** (Site\_Name) **REFERENCES** SITE(**Name**));
63. **TICKET**
64. **CREATE** **TABLE** TICKET (
65. Ticket\_Number **CHAR**(8),
66. Bill **INT** NOT NULL,
67. Airline\_Name **VARCHAR**(20) NOT NULL,
68. Arrival\_time **TIMESTAMP** NOT NULL,
69. Departure\_time **TIMESTAMP** NOT NULL,
70. **PRIMARY** **KEY** (Ticket\_Number));
71. **SURVEY**
72. **CREATE** **TABLE** SURVEY (
73. ID **CHAR**(8),
74. Rating **INT** NOT NULL **CHECK**(Rating>=0 AND Rating<=5),
75. Feedback **VARCHAR**(100),
76. **PRIMARY** **KEY**(ID));
77. **PARTNERSHIP**
78. **CREATE** **TABLE** PARTNERSHIP(
79. **Name** **VARCHAR**(100) **PRIMARY** **KEY**,
80. Dep\_ID **CHAR**(8),
81. **Function** **VARCHAR**(100) NOT NULL,
82. Bill **FLOAT**,
83. Contact\_number **VARCHAR**(22) NOT NULL,
84. Service\_validity **DATE**,
85. **FOREIGN** **KEY**(Dep\_ID) **REFERENCES** DEPARTMENT (Department\_nb));
86. **VISA**
87. **CREATE** **TABLE** VISA(
88. Issuance\_Number **CHAR**(8) **PRIMARY** **KEY**,
89. Expiration\_Date **DATE** NOT NULL,
90. Status **VARCHAR**(15) NOT NULL,
91. Embassy **VARCHAR**(15) NOT NULL,
92. Purpose **VARCHAR**(15) NOT NULL,
93. Nationality **VARCHAR**(15) NOT NULL);
94. **CONTRACT**
95. **CREATE** **TABLE** CONTRACT(
96. Reference\_Nb **CHAR**(8)  **PRIMARY** **KEY**,
97. Currency **VARCHAR**(20) NOT NULL,
98. Policy **VARCHAR**(20),
99. details **VARCHAR**(100),
100. Date\_of\_payment **DATE**,
101. Amount\_paid NUMBER(6,2) NOT NULL **CHECK**(Amount\_paid>0),
102. Payment\_method **VARCHAR**(15) **CHECK** (Payment\_method IN('CASH','LOAN','ACCOUNT','CREDIT CARD')),
103. CID **CHAR**(8),
104. **FOREIGN** **KEY** (CID) **REFERENCES** CUSTOMER (ID));
105. **LOAN**
106. **CREATE** **TABLE** LOAN (
107. Loan\_Nbr **CHAR(8)**,
108. Cust\_ID **CHAR**(8),
109. Interest\_Rate **INT** NOT NULL,
110. Monthly\_Payment **INT** NOT NULL,
111. **PRIMARY** **KEY** (Loan\_Nbr,Cust\_ID),
112. **FOREIGN** **KEY**(Cust\_ID) **REFERENCES** CUSTOMER(ID));
113. **TRIP\_SCHEDULE**
114. **CREATE** **TABLE** TRIP\_SCHEDULE(
115. Trip\_Number **CHAR**(8) NOT NULL,
116. Trip\_Name **VARCHAR**(30) NOT NULL,
117. Duration INT NOT NULL,
118. **PRIMARY** **KEY**(Trip\_Number,Trip\_Name),
119. **FOREIGN** **KEY** (Trip\_Number) **REFERENCES** PACKAGE (Trip\_nb));
120. **MEDICAL\_RECORD**
121. **CREATE** **TABLE** MEDICAL\_RECORD(
122. MR\_ID **CHAR**(8),
123. CID **CHAR**(8),
124. Blood\_Type **VARCHAR**(3) NOT NULL,
125. PCR\_Test NUMBER(1) NOT NULL,
126. Emergency\_Number **VARCHAR**(15) NOT NULL,
127. **PRIMARY** **KEY**(MR\_ID,CID),
128. **FOREIGN** **KEY**(CID) **REFERENCES** CUSTOMER(ID));
129. **RELATED\_PEEP**
130. **CREATE** **TABLE** RELATED\_PEEP(
131. PEEP\_ID **CHAR**(2),
132. CID **CHAR**(8),
133. Email **VARCHAR**(30),
134. Phone\_nb **VARCHAR**(15),
135. Relation **VARCHAR**(15) NOT NULL,
136. MM NUMBER(2) NOT NULL **CHECK**(MM>0 AND MM<=12),
137. YYYY NUMBER(4) NOT NULL **CHECK**(YYYY>1900 AND YYYY<2021),
138. DD NUMBER(2) NOT NULL **CHECK**(DD>0 AND DD<=31),
139. FirstName **VARCHAR**(15) NOT NULL,
140. MiddleName **VARCHAR**(15) NOT NULL,
141. LastName **VARCHAR**(15) NOT NULL,
142. Country **VARCHAR**(30),
143. City **VARCHAR**(30),
144. Building **VARCHAR**(15),
145. Street  **CHAR**(15),
146. **PRIMARY** **KEY**(PEEP\_ID,CID)
147. **FOREIGN** **KEY** (CID) **REFERENCES** CUSTOMER (ID));
148. **HAS\_A2**
149. **CREATE** **TABLE** HAS\_A2(
150. CUSTOMER\_ID **CHAR**(8) **PRIMARY** **KEY**,
151. CARD\_Nb **CHAR**(8) **UNIQUE**,
152. FirstName **VARCHAR**(15) NOT NULL,
153. MiddleName **VARCHAR**(15) NOT NULL,
154. LastName **VARCHAR**(15) NOT NULL,
155. Country **VARCHAR**(30) NOT NULL,
156. City **VARCHAR**(30) NOT NULL,
157. Building **VARCHAR**(15),
158. Street  **VARCHAR**(15),
159. DD NUMBER(2) NOT NULL **CHECK**(DD>0 AND DD<=31),
160. MM NUMBER(2) NOT NULL **CHECK**(MM>0 AND MM<=12),
161. YYYY NUMBER(4) NOT NULL **CHECK**(YYYY>0 AND YYYY<2020),
162. Accompanying\_people\_nbr **INT** NOT NULL **CHECK**(Accompanying\_people\_nbr>=0 AND  Accompanying\_people\_nbr<=30),
163. Stranger NUMBER(1),
164. Butterfly NUMBER(1),
165. TrueFriend NUMBER(1),
166. Barnacle NUMBER(1),
167. Nb\_of\_previous\_trips **INT**,
168. Loyalty\_point **INT**,
169. Money\_spent **INT**,
170. **FOREIGN** **KEY** (CUSTOMER\_ID) **REFERENCES** CUSTOMER(ID),
171. **FOREIGN** **KEY** (CARD\_Nb) **REFERENCES** LOYALTY\_CARD (Loyalty\_card\_nb));
172. **FILLS**
173. **CREATE** **TABLE** FILLS(
174. Customer\_ID **CHAR**(8) NOT NULL,
175. SID **CHAR**(8),
176. FirstName **VARCHAR**(15) NOT NULL,
177. MiddleName **VARCHAR**(15) NOT NULL,
178. LastName **VARCHAR**(15) NOT NULL,
179. Country **VARCHAR**(30) NOT NULL,
180. City **VARCHAR**(30) NOT NULL,
181. Building **VARCHAR**(15),
182. Street **VARCHAR**(15),
183. DD NUMBER(2) NOT NULL **CHECK**(DD>0 AND DD<=31),
184. MM NUMBER(2) NOT NULL **CHECK**(MM>0 AND MM<=12),
185. YYYY NUMBER(4) NOT NULL **CHECK**(YYYY>1900 AND YYYY<2003),
186. Accompanying\_people\_nbr **INT** NOT NULL **CHECK**(Accompanying\_people\_nbr>=0 AND  Accompanying\_people\_nbr<=30),
187. Stranger NUMBER(1) **DEFAULT** 0 **CHECK**(Stranger IN (1,0)),
188. Butterfly NUMBER(1) **DEFAULT** 0 **CHECK**(Butterfly IN (1,0)),
189. TrueFriend NUMBER(1) **DEFAULT** 0 **CHECK**(TrueFriend IN (1,0)),
190. Barnacle NUMBER(1) **DEFAULT** 0 **CHECK**(Barnacle IN (1,0)),
191. Rating **INT** NOT NULL **CHECK**(Rating>=0 AND Rating<=5),
192. Feedback **VARCHAR**(100),
193. **PRIMARY** **KEY**(Customer\_ID),
194. **FOREIGN** **KEY** (SID) **REFERENCES** SURVEY (ID),
195. **FOREIGN** **KEY** (Customer\_ID) **REFERENCES** CUSTOMER (ID));
196. **HAS A5**
197. **CREATE** **TABLE** HAS\_A5(
198. Ticket\_nb **CHAR**(8),
199. Peep\_id **CHAR**(2),
200. CID **CHAR**(8),
201. Email **VARCHAR**(30),
202. Phone\_nb **VARCHAR**(15),
203. Relation **VARCHAR**(15) NOT NULL,
204. YYYY NUMBER(4) NOT NULL **CHECK**(YYYY>1900 AND YYYY<2021),
205. MM NUMBER(2) NOT NULL **CHECK**(MM>0 AND MM<=12),
206. DD NUMBER(2) NOT NULL **CHECK**(DD>0 AND DD<=31),
207. FirstName **VARCHAR**(15) NOT NULL,
208. MiddleName **VARCHAR**(15) NOT NULL,
209. LastName **VARCHAR**(15) NOT NULL,
210. Country **VARCHAR**(30),
211. City **VARCHAR**(30),
212. Building **VARCHAR**(15),
213. Street **VARCHAR**(15),
214. Arrival\_time **TIMESTAMP** NOT NULL,
215. Departure\_time **TIMESTAMP** NOT NULL,
216. Airline\_Name **VARCHAR**(20) NOT NULL,
217. Bill **FLOAT** NOT NULL,
218. **PRIMARY** **KEY** (Ticket\_nb),
219. **FOREIGN** **KEY** (Peep\_id,CID) **REFERENCES** RELATED\_PEEP (PEEP\_ID,CID),
220. **FOREIGN** **KEY**(Ticket\_nb) **REFERENCES** TICKET(Ticket\_Number),
221. **CONSTRAINT** composite\_key\_PC **UNIQUE**(Peep\_id,CID));
222. **BUYS**
223. **CREATE** **TABLE** BUYS(
224. Customer\_id **CHAR**(8),
225. Trip\_nbr  **CHAR**(8),
226. **PRIMARY** **KEY** (Customer\_id,Trip\_nbr),
227. **FOREIGN** **KEY** (Customer\_id) **REFERENCES**  CUSTOMER(ID),
228. **FOREIGN** **KEY** (Trip\_nbr) **REFERENCES**  PACKAGE(Trip\_nb));
229. **RESERVES**
230. **CREATE** **TABLE** RESERVES(
231. EmpNSSF **CHAR**(8),
232. ResID **CHAR**(8),
233. **PRIMARY** **KEY**(EmpNSSF,ResID),
234. **FOREIGN** **KEY** (EmpNSSF) **REFERENCES** EMPLOYEE (NSSF),
235. **FOREIGN** **KEY** (ResID) **REFERENCES** RESERVATION (ID));
236. **CUST\_EMAIL**
237. CREATE TABLE CUST\_EMAIL (
238. C\_Email **VARCHAR**(40),
239. C\_ID **CHAR**(8),
240. **PRIMARY** **KEY** (C\_Email,C\_ID),
241. **FOREIGN** **KEY**(C\_ID) **REFERENCES** CUSTOMER(ID));
242. **PHONE\_NBR**
243. **CREATE** **TABLE** PHONE\_NBR(
244. C\_Phone **CHAR**(15),
245. C\_ID **CHAR**(8),
246. **PRIMARY** **KEY**(C\_Phone,C\_ID),
247. **FOREIGN** **KEY**(C\_ID) **REFERENCES** CUSTOMER(ID));
248. **MR\_MEDICINE**
249. **CREATE** **TABLE** MR\_MEDICINE(
250. MR\_MEDICINE **VARCHAR**(20),
251. Med\_Id **CHAR**(8),
252. Cust\_Id **CHAR**(8),
253. **PRIMARY** **KEY**(MR\_MEDICINE,Med\_Id,Cust\_Id),
254. **FOREIGN** **KEY**(Med\_Id,Cust\_Id) **REFERENCES** MEDICAL\_RECORD(MR\_ID,CID));

1. **MED\_ALLERGY**
2. **CREATE** **TABLE** MED\_ALLLERGY(
3. Mr\_Allergy **VARCHAR**(20),
4. Med\_Id **CHAR**(8),
5. Cust\_Id **CHAR**(8),
6. **PRIMARY** **KEY**(Mr\_Allergy,Med\_Id,Cust\_Id),
7. **FOREIGN** **KEY**(Med\_Id,Cust\_Id) **REFERENCES** MEDICAL\_RECORD(MR\_ID,CID));
8. **MED\_INJURY**
9. **CREATE** **TABLE** MED\_INJURY(
10. MR\_Injury **VARCHAR**(20),
11. Med\_Id **CHAR**(8),
12. Cust\_Id **CHAR**(8),
13. **PRIMARY** **KEY**(MR\_Injury,Med\_Id,Cust\_Id),
14. **FOREIGN** **KEY**(Med\_Id,Cust\_Id) **REFERENCES** MEDICAL\_RECORD(MR\_ID,CID));
15. **MED\_CHRONIC**
16. **CREATE** **TABLE** MED\_CHRONIC(
17. MR\_Chronic **VARCHAR**(20),
18. Med\_Id **CHAR**(8),
19. Cust\_Id **CHAR**(8),
20. **PRIMARY** **KEY**(MR\_Chronic,Med\_Id,Cust\_Id),
21. **FOREIGN** **KEY**(Med\_Id,Cust\_Id) **REFERENCES** MEDICAL\_RECORD(MR\_ID,CID));
22. **TRIP\_ACTIVITY**
23. **CREATE** **TABLE** TRIP\_ACTIVITY(
24. TS\_Name **VARCHAR**(20),
25. TS\_Activity **VARCHAR**(20),
26. TS\_Number **CHAR**(8),
27. **PRIMARY** **KEY**(TS\_Activity,TS\_Name,TS\_Number),
28. **FOREIGN** **KEY**(TS\_Number,TS\_Name) **REFERENCES** TRIP\_SCHEDULE(Trip\_Number,Trip\_Name));
29. *INSERTING DATA:*
30. **CUSTOMER**

INSERT INTO CUSTOMER VALUES   
(ID, FirstName, MiddleName, LastName, Country, City, Building, Street,DD, MM, YYYY, Stranger, Butterfly, TrueFriend, Barnacle, Ticket\_Nb, SSCode);

1. **INSERT** **INTO** CUSTOMER **VALUES** ('20397649', 'Renee', 'Honywill', 'Bert', 'Malaysia', 'Kuching', 'Tower Bldg', '58', 21 ,01 ,2000,0,1, 0, 0, 0, '07691915', 'EMP-0006');
2. **INSERT** **INTO** CUSTOMER **VALUES** ('30675402', 'Clareta', 'Spare', 'Romney', 'Cuba', 'Remedios', 'Kamel Bldg', '2239', 30, 12, 1989,0,0, 1, 0, 0, '31831850', 'EMP-0014');
3. **INSERT** **INTO** CUSTOMER **VALUES** ('70864186', 'Carree', 'Stammler', 'Jeggo', 'Portugal', 'Monte Agudo', 'XYZ Bldg', '8', 04, 06, 1999,0, 1, 0, 0, 0, '83282911', 'EMP-0006');
4. **INSERT** **INTO** CUSTOMER **VALUES** ('81565234', 'Ikey', 'Popplewell', 'Lempenny', 'Chile', 'Talcahuano', 'Hanoi Tower', '3', 29, 08, 1993,0, 0, 1, 0, 0, '21615125', 'EMP-0005');
5. **INSERT** **INTO** CUSTOMER **VALUES** ('81919972', 'Devi', 'Grigoire', 'Duerden', 'United States', 'Lancaster', 'Lancaster bldg', '1', 19, 12, 2001,2,1, 0, 0, 0, '68962709', 'EMP-0014');
6. **INSERT** **INTO** CUSTOMER **VALUES** ('68464201', 'Catlee', 'Cotterell', 'Latham', 'Qatar', 'Madīnat ash Shamāl', 'Salman Bldg', '481', 12, 03, 1969,3,0, 0, 0, 1, '09314230', 'EMP-0014');
7. **INSERT** **INTO** CUSTOMER **VALUES** ('28034052', 'Tamarra', 'Scamal', 'Antrobus', 'Canada', 'Beloeil', 'Beloeil Bldg', '25', 15, 01, 2002,0, 0, 0, 0, 1, '42719959', 'EMP-0005');
8. **INSERT** **INTO** CUSTOMER **VALUES** ('20725761', 'Silvie', 'Hellcat', 'Peplow', 'Estonia', 'Tartu', 'EST BLDG04', '283', 07, 12, 1979,0, 0, 1, 0, 0, '49440922', 'EMP-0005');
9. **INSERT** **INTO** CUSTOMER **VALUES** ('73587399', 'Noelani', 'Coole', 'Jedrzaszkiewicz', 'Russia', 'Sobinka', 'Basel Bldg', '68', 19, 08, 1960,2,0, 1, 0, 0, '51667681', 'EMP-0006');
10. **INSERT** **INTO** CUSTOMER **VALUES** ('16951576', 'Del', 'Matfin', 'Sacco', 'Indonesia', 'Timurjaya', 'wkwk bldg', '54317', 08,12, 1993,3,1,0,0,0,'79668008','EMP-0014');
11. **INSERT** **INTO** CUSTOMER **VALUES** ('60484923', 'Nedda', 'Bewick', 'Pattini', 'Nigeria', 'Uba', 'Osas bldg', '933', 13, 02, 1989,0, 0, 0, 0, 1, '80109491', 'EMP-0014');
12. **INSERT** **INTO** CUSTOMER **VALUES** ('63276737', 'Biddie', 'McLaughlan', 'Caramuscia', 'Sweden', 'Umeå', 'Sky bldg', '11', 29, 04, 1970,0, 0, 1, 0, 0, '10372901', 'EMP-0006');
13. **EMPLOYEE**
14. INSERT INTO EMPLOYEE VALUES('EMP-0001', 2000, 'Lucy', 'Paula', 'Casey', 'Lebanon', 'Beirut', 'Sama Beirut','Ashrafieh',20,11,1986,'l.casey@fakhrtours.com','+961-72-865-549','M','F',NULL,'35547933');

1. INSERT INTO EMPLOYEE VALUES('EMP-0003',2700,'Dominik','Alan','Farrell','Lebanon','Beirut','Sama Beirut','Ashrafieh',01,10,1993,'d.farrell@fakhrtours.com','+961-71-025-550','M','M',NULL,'02945082');

1. INSERT INTO EMPLOYEE VALUES('EMP-0002', 2000, 'Jenna', 'Matilda', 'Mason', 'Lebanon', 'Beirut', 'Sama Beirut', 'Ashrafieh', 23, 01, 1990, 'j.mason@fakhrtours.com', '+961-70-333-615', 'M', 'F','EMP-0003','02945082');
2. INSERT INTO EMPLOYEE VALUES('EMP-0004', 1082, 'Alan', 'Jeffrey', 'Walter', 'Lebanon', 'Beirut', 'Sama Beirut', 'Ashrafieh', 23, 01, 1989, 'a.jeffrey@fakhrtours.com', '+961-81-202-112', 'M', 'M','EMP-0001','35547933');

1. INSERT INTO EMPLOYEE VALUES('EMP-0005', 1700, 'Harold', 'Mathew', 'Peterson', 'Lebanon', 'Beirut', 'Sama Beirut', 'Ashrafieh', 03, 04, 1995, 'h.peterson@fakhrtours.com', '+961-81-868-101', 'S', 'M',NULL,'79463026');

1. INSERT INTO EMPLOYEE VALUES('EMP-0006', 900, 'John', 'Victor', 'Brooks', 'Lebanon', 'Beirut', 'Sama Beirut', 'Ashrafieh', 20, 03, 1992, 'j.brooks@fakhrtours.com', '+961-03-214-365', 'S', 'M','EMP-0005','79463026');

1. INSERT INTO EMPLOYEE VALUES('EMP-0007', 1200, 'Andrea', 'Nelly', 'Tucker', 'Lebanon', 'Beirut', 'Sama Beirut', 'Ashrafieh', 22, 06, 1996, 'a.tucker@fakhrtours.com', '+961-01-221-607', 'S', 'F',NULL,'29178485');

1. INSERT INTO EMPLOYEE VALUES('EMP-0008', 3000, 'Christel', 'Olivia', 'Cook', 'France', 'Paris', 'Tour First','Place des Saisons',16,01,1993,'c.cook@fakhrtours.com','+33-203-789-555','M', 'F',NULL,'15469484');
2. INSERT INTO EMPLOYEE VALUES('EMP-0010', 2243, 'Frederik', 'Ivan', 'Taylor', 'Lebanon', 'Beirut', 'Sama Beirut','Ashrafieh', 08, 05, 1996, 'f.taylor@fakhrtours.com','+961-80-231-676', 'M', 'F','EMP-0007','29178485');

1. INSERT INTO EMPLOYEE VALUES('EMP-0009', 4000, 'Angelina', 'Carrie', 'Jackson', 'USA', 'New York', 'Empire State','Fifth Avenue',12, 08, 1992, 'a.jackson@fakhrtours.com','+1-413-634-3022', 'S', 'F','EMP-0011','30519143');

1. INSERT INTO EMPLOYEE VALUES('EMP-0011', 2943, 'Albert', 'Theodore', 'Gibson', 'USA', 'New York','NY Sequare','NY', 25, 12, 1998, 'a.gibson@fakhrtours.com', '+1-313-654-3022', 'S', 'M',NULL,'30519143');

1. INSERT INTO EMPLOYEE VALUES('EMP-0012', 850, 'Sean', 'Michael', 'Williams', 'Lebanon', 'Beirut', 'Sama Beirut','Ashrafieh', 14, 01, 1990, 's.williams@fakhrtours.com', '+961-090-783', 'M', 'M',NULL,'68534448');
2. INSERT INTO EMPLOYEE VALUES('EMP-0013', 1300, 'Kamil', 'Adham', 'Nassif', 'Lebanon', 'Beirut', 'Sama Beirut','Ashrafieh', 14, 01, 1990, 'a.nassif@fakhrtours.com','+961-03-314-506', 'M', 'M',NULL,'13096894');
3. **DEPARTMENT**
4. **INSERT** **INTO** DEPARTMENT **VALUES**('35547933','IT','Responsible for technical support','EMP-0001','7');
5. **INSERT** **INTO** DEPARTMENT **VALUES**('30519143','Finance','It manages company financial issues','EMP-0011','9');
6. **INSERT** **INTO** DEPARTMENT **VALUES**('02945082','Marketing','Responsible for marketing company’s travel packages', 'EMP-0003','5');
7. **INSERT** **INTO** DEPARTMENT **VALUES**('13096894','Package Design', 'It is the department which organize and design the travel packages', 'EMP-0013','2');
8. **INSERT** **INTO** DEPARTMENT **VALUES**('15469484','International Communication','Responsible for communicating with partners and reservation', 'EMP-0008','1');
9. **INSERT** **INTO** DEPARTMENT **VALUES**('79463026','Client Service','The department that is responsible for client services and communicating with them','EMP-0005','4');
10. **INSERT** **INTO** DEPARTMENT **VALUES**('29178485','Management', 'Responsible for managing documents and controlling departments', 'EMP-0007','3’);
11. **INSERT** **INTO** DEPARTMENT **VALUES**('68534448','Human Resource', 'HR responsible for hiring and firing employees as well as managing their problems', 'EMP-0012','8’);
12. **EXPENSE**
13. **INSERT** **INTO** EXPENSE **VALUES**('1',100000,497000);
14. **INSERT** **INTO** EXPENSE **VALUES**('2',230000,74000);
15. **INSERT** **INTO** EXPENSE **VALUES**('3',10000,33000);
16. **INSERT** **INTO** EXPENSE **VALUES**('4',66000,1000);
17. **INSERT** **INTO** EXPENSE **VALUES**('5',89500,76832);
18. **INSERT** **INTO** EXPENSE **VALUES**('7',21000,10000);
19. **INSERT** **INTO** EXPENSE **VALUES**('8',11000,10000);
20. **INSERT** **INTO** EXPENSE **VALUES**('9',53000,100000);
21. **DESTINATION**
22. **INSERT** **INTO** DESTINATION **VALUES**('DST-0001','10000000','France','Paris');
23. **INSERT** **INTO** DESTINATION **VALUES**('DST-0002','10000001','Switzerland','Bern');
24. **INSERT** **INTO** DESTINATION **VALUES**('DST-0003','10000002','France',Lyon);
25. **INSERT** **INTO** DESTINATION **VALUES**('DST-0004','10000003','Lebanon','Beirut');
26. **INSERT** **INTO** DESTINATION **VALUES**('DST-0005','10000004','France', 'Menton');
27. **INSERT** **INTO** DESTINATION **VALUES**('DST-0006','10000005','Japan','Tokyo');
28. **INSERT** **INTO** DESTINATION **VALUES**('DST-0007','10000006','United States','Washington D.C');
29. **INSERT** **INTO** DESTINATION **VALUES**('DST-0008','10000007','Australia','Sydney');
30. **INSERT** **INTO** DESTINATION **VALUES**('DST-0009','10000008','Canada','Ottawa');
31. **INSERT** **INTO** DESTINATION **VALUES**('DST-0010','10000009','China','Beijing');
32. **INSERT** **INTO** DESTINATION **VALUES**('DST-0011',NULL,'Germany','Berlin');
33. **SITE**
34. **INSERT** **INTO** SITE **VALUES** ('Rideau Canal','6906 Vernon Road','Ottawa', 925,'Ice skating', '+1-663-472-1943', 'A perfect place for Ice skating and boating, rated 325th worldwide, located in Vernon Road, Ottawa. For more info contact +1-663-472-1943.', 'DST-0009');
35. **INSERT** **INTO** SITE **VALUES** ('Mirazur', '2917 Westend Alley', 'Menton', 1, 'Restaurant', '+33-700-5555-55', 'Mirazur is no. 1 restaurant around world, located in 2917 Westend Alley, Menton. For more info contact +33-700-5555-55.','DST-0005');
36. **INSERT** **INTO** SITE **VALUES** ('Forbidden City', '499 Badeau Point', 'Beijing', 50, 'Palace', '+86-18-411-6322', 'Palace complex from 1420 with a museum, rated 50th worldwide, located in 499 Badeau Point, Beijing. For more info contact +86-18-411-6322.', 'DST-0010');
37. **INSERT** **INTO** SITE **VALUES** ('National Gallery Art', '97297 Lakeland Circle', 'Washington D.C', 100, 'Art gallery', '+1-865-912-1332', 'Famous art gallery in Washington, rated 100th worldwide, located in 97297 Lakeland Circle, Washington D.C. For more info contact (865) 6662836.', 'DST-0007');
38. **INSERT** **INTO** SITE **VALUES** ('Gurten', '77 Summerview Street', 'Bern', 232, 'Restaurant', '+41-319-703-333', 'Swiss Restaurant with very elegant view, rated 232th worldwide, located in 77 Summerview Street, Bern. For more info contact +41-319-703-333.', 'DST-0002');
39. **INSERT** **INTO** SITE **VALUES** ('Sunset Hotel', '260 1st Way', 'Paris', 112, 'Hotel', '+33-231-4343-51', ' Famous five stars hotel, located on calm street in Paris,For more info contact +33-231-4343-51.', 'DST-0001');
40. **INSERT** **INTO** SITE **VALUES** ('Tokyo SkyTree', '0 Derek Place', 'Tokyo', 300, 'Sky view', '+81-402-243-314', 'Japanese Tower, rated 300th worldwide, located in 0 Derek Place, Tokyo. For more info contact +81-402-243-314', 'DST-0006');
41. **INSERT** **INTO** SITE **VALUES** ('SurSock Museum', 'Ashrafieh', 'Beirut', 400, 'Art museum', '+961-01-202-001', 'Modern Art Museum in a 1912 villa, rated 400th worldwide, located in Ashrafieh,Beirut. For more info contact +961-01-202-001.', 'DST-0004');
42. **INSERT** **INTO** SITE **VALUES** ('Ancient Theatre of Fourvière', '0 Huxley Center', 'Lyon', 161, 'History','+33-47-243-311', 'Remains of roman theater, rated 161st worldwide, located in 0 Huxley Center, Lyon. For more info contact +33-47-243-311.', 'DST-0003');
43. **INSERT** **INTO** SITE **VALUES** ('Sydney Opera House', '6 Bartillon Way', 'Sydney', 20, 'Art Centre', '+61-998-90-8499', 'Australian iconic site and Performing Art Centre, rated 20th worldwide, located in 6 Bartillon Way, Canberra. For more info contact +61-998-90-8499.', 'DST-0008');
44. **INSERT** **INTO** SITE **VALUES** ('Four Season Hotel', 'Berlin street 9', 'Berlin',34, 'Hotel', ' +49-7141-956831', ' Famous five stars hotel, located on calm street in berlin,for more info contact +49-7141-956831.', 'DST-0011');
45. **PACKAGE**
46. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0001', 'Adventure Tourism', 1759, **DATE**('2020-12-25'), **DATE**('2021-01-05'), '13096894');
47. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0003', 'Medical Tourism', 1099,**DATE**('2021-02-06'),**DATE**('2021-02-27'),'13096894');
48. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0002', 'Wildlife Tourism', 1259,**DATE**('2021-02-13'),**DATE**('2021-02-20'), '15469484');
49. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0004', 'Pilgrimage Tourism', 2599, **DATE**('2020-12-20'),**DATE**('2021-01-20'), '30519143');
50. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0005', 'Eco Tourism', 1099, **DATE**('2020-12-01'), **DATE**('2020-12-07'), '02945082');
51. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0006', 'Cultural Tourism', 1259,**DATE**('2020-12-23'),**DATE**('2020-12-29'), '30519143');
52. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0007', 'Cruise Tourism', 1099, **DATE**('2021-01-01'),**DATE**('2021-01-12'), '02945082');
53. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0008', 'Wellness Tourism', 759, **DATE**('2021-03-01'),**DATE**('2021-03-06'), '15469484' );
54. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0009', 'Family Tourism', 799, **DATE**('2020-06-20'),**DATE**('2020-07-01'), '29178485');
55. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0010', 'Honeymoon Tourism', 2599, **DATE**('2020-08-20'),**DATE**('2020-09-15'), '29178485');
56. **INSERT** **INTO** PACKAGE **VALUES**('PKNB0011', 'Nature Adore', 1099, **DATE**('2021-01-23'),**DATE**('2021-01-28'), '13096894');

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1. **OFFER**

**INSERT INTO OFFER VALUES('80957684',7,'1000$ offer: 5 star hotel including flight from Lebanon to Malaysia','13319670');**

1. **INSERT INTO** OFFER **VALUES**('99809635',**TIMESTAMP**('2020-06-11 18:00:00'),'1500$ offer: 5 star hotel including flight from Qatar to London',1500,'66461696');
2. **INSERT** **INTO** OFFER **VALUES**('05190712',**TIMESTAMP**('2020-12-01 13:01:01'),'600$ offer: 3 star hotel including flight from Egypt to Turkey',700,'08514744');
3. **INSERT** **INTO** OFFER **VALUES**('14321115',**TIMESTAMP**('2020-09-09 09:09:59'),'300$ offer: Bahamas perfect day cruise departs from Miami',500,'26766358');
4. **INSERT** **INTO** OFFER **VALUES**('00381135',**TIMESTAMP**('2020-10-11 12:00:00'),'350$ offer: Perfect day getaway cruise departs from Orlando',400,'84927676');
5. **INSERT** **INTO** OFFER **VALUES**('33467224',**TIMESTAMP**('2020-12-25 18:01:01'),'649$ offer: Bermuda cruise departs from Cape Liberty, New Jersey, onboard Freedom of the Seas',400,'54786416');
6. **INSERT** **INTO** OFFER **VALUES**('70858802',**TIMESTAMP**('2019-01-11 04:30:10'),'2000$ offer: 4 star hotel including flight from KSA to Spain',1390,'66997013');
7. **INSERT** **INTO** OFFER **VALUES**('99019698',**TIMESTAMP**('2018-03-05 01:00:12'),'2456$ offer: Apartment including flight from Jordan to Greece',2605,'86412122');
8. **INSERT** **INTO** OFFER **VALUES**('94509368',**TIMESTAMP**('2020-12-31 11:59:59'),'993$ offer: 5 star hotel including flight from Tunisia to Italy',400,'43394385');
9. **INSERT** **INTO** OFFER **VALUES**('17050286',**TIMESTAMP**('2020-02-17 01:48:10'),'818$ offer: Southern Caribbean Cruise departs from Cape Liberty onboard Anthem of the Seas',340,'55002229');
10. **LOYALTY\_CARD**
11. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('13319670',3400,5,2500);
12. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('66461696',600,1,600);
13. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('08514744',6000,8,2500);
14. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('26766358',1000,2,90);
15. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('84927676',4999,3,3000);
16. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('54786416',10000,10,8000);
17. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('66997013',2666,3,2666);
18. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('86412122',799,1,799);
19. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('43394385',1099,2,301);
20. **INSERT** **INTO** LOYALTY\_CARD **VALUES**('55002229',3055,4,1008);
21. **ACCOMMODATION**
22. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0001','DST-0004','RES-0011',809.56,'Large','The Edge','Berlin Street','50','Facility','Master Rooms','Breakfast');
23. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0002','DST-0004','RES-0011',512.35,'Small','The Edge','Berlin Street','20','Facility','Single Rooms','Lunch');
24. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0003','DST-0004','RES-0011',677,'Medium','The Edge','Berlin Street','30','Facility','Master Rooms','Dinner');
25. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0004','DST-0001','RES-0012',1009.50,'Large','La Cite','Paris Street','10','Facility','Master Rooms','All Meals');
26. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0005','DST-0007','RES-0005',509.99,'Large','High Towers','High Street','150','Facility','Master Rooms','Lunch');
27. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0006','DST-0001','RES-0012',709.50,'Small','La Cite','Paris Street','30','Facility','Master Rooms','Dinner');
28. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0007','DST-0006',NULL,599.9,'Large','Cozy bdg','Greenfields St.','130','Facility','Master Rooms','All day');
29. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0008','DST-0005',NULL,499.9,'Small','Starco','Leechwell St.','20','Facility','Master Rooms','Breakfast');
30. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0009','DST-0001','RES-0012',855,'Medium','La Cite','Paris Street','5','Facility','Master Rooms','Dinner');
31. **INSERT** **INTO** ACCOMMODATION **VALUES**('ACC-0010','DST-0007','RES-0005',450.56,'Small','High Towers','High Street','60','Facility','Master Rooms','All Lunch');
32. **RESERVATION**

insert into RESERVATION (id, Reservation\_Name, Time, Date, gender, ip\_address)

1. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0001', 'Res04',**TIMESTAMP**('2020-12-27 10:00:00'),**DATE**('2020-11-15') , 'Ottowa', 'PKNB0001','Rideau Canal');
2. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0002', 'Res06', **TIMESTAMP**('2020-09-01 17:00:00'),**DATE**('2020-05-23'), 'Menton', 'PKNB0010', 'Mirazur');
3. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0003', 'Res01',**TIMESTAMP**('2020-12-25 09:00:00'),**DATE**('2020-06-02'), 'Beijing', 'PKNB0006', 'Forbidden City');
4. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0004', 'Res03',**TIMESTAMP**('2020-06-24 12:00:00'),**DATE**('2020-01-10'), 'United States', 'PKNB0009', 'National Gallery Art');
5. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0005', 'Res06',**TIMESTAMP**('2021-02-10 21:00:00'), **DATE**('2020-07-23'), 'United States', 'PKNB0003', NULL);
6. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0006', 'Res05',**TIMESTAMP**('2021-03-05 21:00:00'),**DATE**('2020-11-16'), 'Switzerland', 'PKNB0008', 'Gurten');
7. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0007', 'Res02',**TIMESTAMP**('2020-12-03 15:30:00'),**DATE**('2020-09-18'), 'Japan', 'PKNB0005', 'Tokyo SkyTree');
8. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0008', 'Res03',**TIMESTAMP**('2020-06-23 22:45:00'),**DATE**('2020-01-23'), 'Lebanon', 'PKNB0009', 'SurSock Museum');
9. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0009', 'Res04',**TIMESTAMP**('2020-12-27 17:25:00'),**DATE**('2020-05-15'), 'Lyon', 'PKNB0006', 'Ancient Theatre of Fourvière');
10. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0010', 'Res06',**TIMESTAMP**('2021-01-07 18:15:00'),**DATE**('2020-09-23'), 'Sydney', 'PKNB0007', 'Sydney Opera House');
11. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0011','Res07',**TIMESTAMP**('2021-01-23 03:30:00'),**DATE**('2020-09-28'), 'Berlin','PKNB0011','Four Season Hotel');
12. **INSERT** **INTO** RESERVATION **VALUES** ('RES-0012','Res08',**TIMESTAMP**('2020-12-20 11:00:00'),**DATE**('2020-09-28'), 'Paris','PKNB0004','Sunset Hotel');
13. **TICKET**
14. **INSERT** **INTO** TICKET **VALUES**('09314230', 1099,'Qatar',**TIMESTAMP**('2020-06-11 05:00:00' ), **TIMESTAMP**('2020-06-23 18:00:00'));
15. **INSERT** **INTO** TICKET **VALUES**('31831850', 899, 'Singapore Travel',**TIMESTAMP**('2020-06-1 06:00:00'), **TIMESTAMP**('2020-06-9 17:00:00'));
16. **INSERT** **INTO** TICKET **VALUES**('83282911', 599, 'Hainan',**TIMESTAMP**('2020-08-24 07:00:00'), **TIMESTAMP**('2020-09-02 16:00:00'));
17. **INSERT** **INTO** TICKET **VALUES**('21615125', 799,'China Airway' ,**TIMESTAMP**('2020-07-1 08:00:00' ), **TIMESTAMP**('2020-07-20 15:00:00'));
18. **INSERT** **INTO** TICKET **VALUES**('68962709', 699, 'Emirates',**TIMESTAMP**('2020-07-18 09:00:00'),**TIMESTAMP**('2020-07-29 14:00:00'));
19. **INSERT** **INTO** TICKET **VALUES**('07691915', 539, 'Ukraine Swift',**TIMESTAMP**('2020-10-2 08:00:00' ),**TIMESTAMP**('2020-10-20 13:00:00'));
20. **INSERT** **INTO** TICKET **VALUES**('42719959', 1599, 'Thai Sea Travel', **TIMESTAMP**('2020-08-08 07:00:00' ) ,**TIMESTAMP**('2020-09-01 12:00:00'));
21. **INSERT** **INTO** TICKET **VALUES**('49440922', 729, 'Lufthansa Waves',**TIMESTAMP**('2020-08-1 06:00:00'),**TIMESTAMP**('2020-08-12 11:00:00'));
22. **INSERT** **INTO** TICKET **VALUES**('51667681', 669, 'Amer Airwaves',**TIMESTAMP**('2020-08-17 22:00:00'),**TIMESTAMP**('2020-08-23 11:00:00'));
23. **INSERT** **INTO** TICKET **VALUES**('79668008', 529, 'EasyJet',**TIMESTAMP**('2020-08-2 21:00:00'),**TIMESTAMP**('2020-08-06 06:00:00'));
24. **INSERT** **INTO** TICKET **VALUES**('10372901', 499, 'MEA',**TIMESTAMP**('2020-12-25 22:00:00'),**TIMESTAMP**('2021-01-02 11:00:00'));
25. **INSERT** **INTO** TICKET **VALUES**('80109491', 2990, 'Mid Water',**TIMESTAMP**('2020-12-10 21:00:00'),**TIMESTAMP**('2021-02-10 06:00:00'));
26. **INSERT** **INTO** TICKET **VALUES**('22109652', 1099,'Qatar',**TIMESTAMP**('2020-06-11 05:00:00' ), **TIMESTAMP**('2020-06-23 18:00:00'));
27. **INSERT** **INTO** TICKET **VALUES**('10946123', 1099,'Qatar',**TIMESTAMP**('2020-06-11 05:00:00' ), **TIMESTAMP**('2020-06-23 18:00:00'));
28. **INSERT** **INTO** TICKET **VALUES**('01066721', 1099,'Qatar',**TIMESTAMP**('2020-06-11 05:00:00' ), **TIMESTAMP**('2020-06-23 18:00:00'));
29. **INSERT** **INTO** TICKET **VALUES**('81301277', 699, 'Emirates',**TIMESTAMP**('2020-07-18 09:00:00'),**TIMESTAMP**('2020-07-29 14:00:00'));
30. **INSERT** **INTO** TICKET **VALUES**('10981443', 699, 'Emirates',**TIMESTAMP**('2020-07-18 09:00:00'),**TIMESTAMP**('2020-07-29 14:00:00'));
31. **INSERT** **INTO** TICKET **VALUES**('51667812', 669, 'Amer Airwaves',**TIMESTAMP**('2020-08-17 22:00:00'),**TIMESTAMP**('2020-08-23 11:00:00'));
32. **INSERT** **INTO** TICKET **VALUES**('51667813', 669, 'Amer Airwaves',**TIMESTAMP**('2020-08-17 22:00:00'),**TIMESTAMP**('2020-08-23 11:00:00'));
33. **INSERT** **INTO** TICKET **VALUES**('79668108', 529, 'EasyJet',**TIMESTAMP**('2020-08-2 21:00:00'),**TIMESTAMP**('2020-08-06 06:00:00'));
34. **INSERT** **INTO** TICKET **VALUES**('79668133', 529, 'EasyJet',**TIMESTAMP**('2020-08-2 21:00:00'),**TIMESTAMP**('2020-08-06 06:00:00'));
35. **INSERT** **INTO** TICKET **VALUES**('79668111', 529, 'EasyJet',**TIMESTAMP**('2020-08-2 21:00:00'),**TIMESTAMP**('2020-08-06 06:00:00'));
36. **SURVEY**
37. **INSERT** **INTO** SURVEY **VALUES**('SUR-4123',4,'Amazing experience');
38. **INSERT** **INTO** SURVEY **VALUES**('SUR-1322',5,'Best part of the trip is making new memories and new friends');
39. **INSERT** **INTO** SURVEY **VALUES**('SUR-1455',3,'Enjoyed my time with friends but the hotel staff were rude');
40. **INSERT** **INTO** SURVEY **VALUES**('SUR-9088',5,'Learned a lot of interesting information from the museums we visited');
41. **INSERT** **INTO** SURVEY **VALUES**('SUR-1321',4, NULL);
42. **INSERT** **INTO** SURVEY **VALUES**('SUR-7623',2,'The food served at the hotel was not good at all');
43. **INSERT** **INTO** SURVEY **VALUES**('SUR-0010',5,'Had so much fun discovering different parts of the city');
44. **INSERT** **INTO** SURVEY **VALUES**('SUR-0111',5,NULL);
45. **INSERT** **INTO** SURVEY **VALUES**('SUR-3189',4,'All the activities we did were so entertaining');
46. **INSERT** **INTO** SURVEY **VALUES**('SUR-0108',3,'The trip was too short, we needed more time to explore the city');
47. **PARTNERSHIP**
48. **INSERT** **INTO** PARTNERSHIP **VALUES**('Mirazur','15469484','Restaurant',65000,'+33-700-5555-55','2022-11-22');
49. **INSERT** **INTO** PARTNERSHIP **VALUES**('Four Seasons','15469484','Hotel & Resort',1120000,'+49-7141-9568311','2023-01-01');
50. **INSERT** **INTO** PARTNERSHIP **VALUES**('Fidelty Assurance & Reinsurance Co.','30519143','Medical Insurance',780000,'+961-70084048','2022-05-23');
51. **INSERT** **INTO** PARTNERSHIP **VALUES**('Italy Luxury Car Hire','15469484','Hire all different types of cars',54000,'+39-345-710-704','2020-12-28');
52. **INSERT** **INTO** PARTNERSHIP **VALUES**('Mediterranean Sea Ships','15469484','Ship travel company',33000,'+961-01802888','2022-03-12');
53. **INSERT** **INTO** PARTNERSHIP **VALUES**('Middle East Airlines','15469484','Air travel company',233000,'+961-01-629-999','2024-05-01');
54. **INSERT** **INTO** PARTNERSHIP **VALUES**('Cedar Bank','30519143','Bank',NULL,'+961-01-333-038',NULL);
55. **INSERT** **INTO** PARTNERSHIP **VALUES**('Bright Case International Law Firm','29178485','Attorney company to deal with legal issues',3300000,'+33-180-2719-90','2026-01-01');
56. **INSERT** **INTO** PARTNERSHIP **VALUES**('Swiss Moving','15469484','Transportation company in switzerland',810000,'+41-44-4669-000','2021-09-12');
57. **INSERT** **INTO** PARTNERSHIP **VALUES**('Security Shell','35547933','Cyber security company',10000,'+41-44-4669-000','2021-09-12');
58. **INSERT** **INTO** PARTNERSHIP **VALUES**('Duck Marketing','02945082','A marketing partner',76400,'+44-44-4569-100','2024-01-12');
59. **INSERT** **INTO** PARTNERSHIP **VALUES**('Penguin Data Management','29178485','A Management company that provide database organizing',33000,'+1-323-464-3122','2022-12-22');
60. **VISA**
61. **INSERT** **INTO** VISA **VALUES**('10000000','2020-12-07','Accepted','French','Student','Lebanese');
62. **INSERT** **INTO** VISA **VALUES**('10000001','2021-10-05','InProcess','Switzerland','Work','French');
63. **INSERT** **INTO** VISA **VALUES**('10000002','2021-02-03','Rejected','French','Visit','Lebanese');
64. **INSERT** **INTO** VISA **VALUES**('10000003','2020-03-02','InProcess','Lebanon','Work','Japanese');
65. **INSERT** **INTO** VISA **VALUES**('10000004','2020-04-30','InProcess','French','Visit','Egyptian');
66. **INSERT** **INTO** VISA **VALUES**('10000005','2021-11-22','Accepted','Japan','Work','Switzerland');
67. **INSERT** **INTO** VISA **VALUES**('10000006','2021-11-11','Accepted','United States','Student','Korean');
68. **INSERT** **INTO** VISA **VALUES**('10000007','2020-10-17','Accepted','Australia','Visit','Chinese');
69. **INSERT** **INTO** VISA **VALUES**('10000008','2021-07-18','Accepted','Canada','Work','American');
70. **INSERT** **INTO** VISA **VALUES**('10000009','2020-09-01','Rejected','China','Visit','French');
71. **CONTRACT**

1. **INSERT** **INTO** CONTRACT **VALUES** ('25499730', 'Dollar', 'Policy3', 'Policy 3 for ACCOUNT payments',**DATE**('2020-06-30'), 699.99, 'ACCOUNT', '70864186');
2. **INSERT** **INTO** CONTRACT **VALUES** ('72178253', 'Dollar', 'Policy1', 'Policy 1 for CASH payments', **DATE**( '2020-04-02'), 1099.00, 'CASH', '81919972');
3. **INSERT** **INTO** CONTRACT **VALUES** ('74877009', 'Dollar', 'Policy2', ' Policy 2 for LOAN payments ',**DATE**( '2020-05-21'), 1200.00, 'LOAN', '68464201');
4. **INSERT** **INTO** CONTRACT **VALUES** ('84515017', 'Dollar', 'Policy4', 'Policy 4 for CREDIT CARD payments', **DATE**( '2020-05-12'), 999.99, 'CREDIT CARD', '81565234');
5. **INSERT** **INTO** CONTRACT **VALUES** ('32791014', 'Canadian Dollar', 'Policy2', ' Policy 2 for LOAN payments ', **DATE**( '2020-05-12'), 3199.99, 'LOAN', '28034052');
6. **INSERT** **INTO** CONTRACT **VALUES** ( '30597114', 'EURO', 'Policy2', 'Policy 2 for LOAN payments',**DATE**( '2020-03-19'), 1799.00, 'LOAN', '73587399');
7. **INSERT** **INTO** CONTRACT **VALUES** ('04183109', 'EURO', 'Policy1', 'Policy 1 for CASH payments',**DATE**( '2020-11-11'), 694.99, 'CASH', '63276737');
8. **INSERT** **INTO** CONTRACT **VALUES** ('01600438', 'Dollar', 'Policy4', 'Policy 4 for CREDIT CARD payments',**DATE**( '2020-01-10'), 1099.00, 'CREDIT CARD', '30675402');
9. **INSERT** **INTO** CONTRACT **VALUES** ('27962343', 'Dollar', 'Policy2', 'Policy 2 for LOAN payments',**DATE**( '2020-04-17'), 899.99, 'LOAN', '20397649');
10. **INSERT** **INTO** CONTRACT **VALUES** ('38584341', 'Dollar', 'Policy1', 'Policy 1 for CASH payments', **DATE**( '2020-02-03'), 799.99, 'CASH', '16951576');
11. **LOAN**
12. **INSERT** **INTO** LOAN **VALUES**('LOAN7456','20397649' , 2 , 317);
13. **INSERT** **INTO** LOAN **VALUES**('LOAN5322', '73587399' , 2 , 260);
14. **INSERT** **INTO** LOAN **VALUES**('LOAN8643', '28034052' , 2 , 330);
15. **INSERT** **INTO** LOAN **VALUES**('LOAN6373', '68464201' , 2 , 224);
16. **TRIP\_SCHEDULE**
17. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0001', 'Adventurous Trip', 12);
18. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0002', 'Wildlife Trip', 8);
19. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0003', 'Medical Trip', 21);
20. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0004', 'Pilgrimage Trip', 32);
21. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0005', 'Eco Trip', 7);
22. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0006', 'Cultural Trip', 6);
23. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0007', 'Cruise Trip', 43);
24. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0008', 'Wellness Trip', 6);
25. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0009', 'Family Trip', 12);
26. **INSERT** **INTO** TRIP\_SCHEDULE **VALUES**('PKNB0010', 'Honeymoon Trip', 27);
27. **MEDICAL\_RECORD**

INSERT INTO MEDICAL\_RECORD VALUES('MR-00001','16951576','A+',0,'+60-79-784-1123');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00002','20397649','B+',1,'+46-99-467-0192');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00003','20725761','A+',1,'+37-68-656-3312');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00004','28034052','O+',1,'+1-704-467-0192');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00005','30675402','A+',1,'+53-10-616-8112');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00006','60484923','AB+',0,'+50-863-333-11');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00007','68464201','AB-',1,'+56-79-195-1485');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00008','70864186','A-',0,'+3-701-091-6868');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00009','73587399','B+',0,'+4-791-14-11024');

INSERT INTO MEDICAL\_RECORD VALUES('MR-00010','81919972','B-',0,'+1-605-6436-187');

1. **RELATED\_PEEP**
2. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('03','16951576','Ebra@gmail.com',NULL,'Mother',10,2004,23,'Ebra','Main','Bert','Indonesia','Timurjaya','wkwk](mailto:VALUES('20154192','16951576','Ebra@gmail.com',NULL,'Mother',10,2004,23,'Ebra','Main','Bert','Indonesia','Timurjaya','wkwk) bldg.','54317');
3. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('02','16951576','Rose@gmail.com',NULL,'Mother',11,2008,15,'Rose','Main','Bert','Indonesia','Timurjaya','wkwk](mailto:VALUES('45378241','16951576','Rose@gmail.com',NULL,'Mother',11,2008,15,'Rose','Main','Bert','Indonesia','Timurjaya','wkwk) bldg.','54317');
4. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('01','16951576','James@gmail.com','+60-79-784-1123','Sister',05,1995,25,'James','Matfin','Sacco','Indonesia','Monte](mailto:VALUES('34600784','16951576','James@gmail.com','+60-79-784-1123','Sister',05,1995,25,'James','Matfin','Sacco','Indonesia','Monte) Agudo','XYZ Bldg','8');
5. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('03','68464201','Bady@gmail.com','+974-70-859-021','Father',01,1991,02,'Bady','Mhelo','Latham','Qatar','Madīnat](mailto:VALUES('24500000','68464201','Bady@gmail.com','+974-70-859-021','Father',01,1991,02,'Bady','Mhelo','Latham','Qatar','Madīnat) ash Shamāl','Salman Bldg','481');
6. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('01','68464201','Jameele@gmail.com','+974-70-051-681','Grandmother',06,1980,12,'Jameele','Mella','Jedra','Qatar','Madīnat](mailto:VALUES('20204050','68464201','Jameele@gmail.com','+974-70-051-681','Grandmother',06,1980,12,'Jameele','Mella','Jedra','Qatar','Madīnat) ash Shamāl','Salman Bldg','481');
7. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('02','68464201','Charles@gmail.com','+56-79-195-1485','Brother',04,1975,07,'Charles','Mhelo','Latham','Qatar','Madīnat](mailto:VALUES('24035678','68464201','Charles@gmail.com','+56-79-195-1485','Brother',04,1975,07,'Charles','Mhelo','Latham','Qatar','Madīnat) ash Shamāl','Bright Tower','13');
8. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('01','73587399','Mike@gmail.com','+4-791-14-11024','Brother',01,1965,12,'Mike','Coole','Jedrzaszkiewicz','Russia','Red','RD](mailto:VALUES('30230042','73587399','Mike@gmail.com','+4-791-14-11024','Brother',01,1965,12,'Mike','Coole','Jedrzaszkiewicz','Russia','Red','RD) bldg.','1');
9. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('02','73587399','Alfred@gmail.com','+4-712-5425-124','Brother',12,1970,30,'Alfred','Coole','Jedrzaszkiewicz',NULL,NULL,NULL,NULL](mailto:VALUES('34702500','73587399','Alfred@gmail.com','+4-712-5425-124','Brother',12,1970,30,'Alfred','Coole','Jedrzaszkiewicz',NULL,NULL,NULL,NULL));
10. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('02','81919972','Lea@gmail.com','+1-309-5458-125','Friend',12,2000,21,'Lea','Hellcat','Pepeq','United](mailto:VALUES('97023501','81919972','Lea@gmail.com','+1-309-5458-125','Friend',12,2000,21,'Lea','Hellcat','Pepeq','United) States','NY','EST BLDG04','283');
11. **INSERT** **INTO** RELATED\_PEEP [**VALUES**('01','81919972','Jackline@gmail.com','+1-605-6436-187','Friend',07,2001,01,'Jackline','Main','Sercose','United](mailto:VALUES('12477425','81919972','Jackline@gmail.com','+1-605-6436-187','Friend',07,2001,01,'Jackline','Main','Sercose','United) States','NY','wkwk Bldg','54317');
12. **HAS\_A2**
13. **INSERT** **INTO** HAS\_A2 **VALUES** ('20397649', '26766358', 'Renee', 'Honywill', 'Bert', 'Malaysia', 'Kuching', 'Tower Bldg', '58', 21 ,01 ,2000,0, 1, 0, 0, 0, 2,90,1000 );
14. **INSERT** **INTO** HAS\_A2 **VALUES** ('16951576', '54786416', 'Del', 'Matfin', 'Sacco', 'Indonesia', 'Timurjaya', 'wkwk bldg', '54317',08,12, 1993,3, 0, 0, 1, 0, 1,8000,10000);
15. **INSERT** **INTO** HAS\_A2 **VALUES** ('30675402', '43394385', 'Clareta', 'Spare', 'Romney', 'Cuba', 'Remedios', 'Kamel Bldg', '2239', 30, 12, 1989,0, 0, 1, 0, 0, 2,301,1099);
16. **INSERT** **INTO** HAS\_A2 **VALUES** ('70864186', '66461696', 'Carree', 'Stammler', 'Jeggo', 'Portugal', 'Monte Agudo', 'XYZ Bldg', '8', 04, 06, 1999,0, 1, 0, 0, 0, 1,600,600);
17. **INSERT** **INTO** HAS\_A2 **VALUES** ('81565234', '66997013', 'Ikey', 'Popplewell', 'Lempenny', 'Chile', 'Talcahuano', 'Hanoi Tower', '3', 29, 08, 1993,0, 0, 1, 0, 0, 2,2666,2666);
18. **INSERT** **INTO** HAS\_A2 **VALUES** ('81919972','86412122', 'Devi', 'Grigoire', 'Duerden', 'United States', 'Lancaster', 'Lancaster Bldg', '1', 19, 12, 2001,2, 1, 0, 0, 0, 1,799,799);
19. **INSERT** **INTO** HAS\_A2 **VALUES** ('68464201', '84927676', 'Catlee', 'Cotterell', 'Latham', 'Qatar', 'Madīnat ash Shamāl', 'Salman Bldg', '481', 12, 03, 1969,3, 0, 0, 0, 1, 3,3000,4999);
20. **INSERT** **INTO** HAS\_A2 **VALUES** ('28034052', '08514744', 'Tamarra', 'Scamal', 'Antrobus', 'Canada', 'Beloeil', 'Beloeil Bldg', '25', 15, 01, 2002,0, 0, 0, 0, 1, 8,2500,6000);
21. **INSERT** **INTO** HAS\_A2 **VALUES** ('20725761', '55002229', 'Silvie', 'Hellcat', 'Peplow', 'Estonia', 'Tartu', 'EST BLDG04', '283', 07, 12, 1979,0, 0, 1, 0, 0, 4,1008,3055);
22. **INSERT** **INTO** HAS\_A2 **VALUES** ('73587399', '13319670', 'Noelani', 'Coole', 'Jedrzaszkiewicz', 'Russia', 'Sobinka', 'Basel Bldg', '68', 19, 08, 1986,2, 0, 0, 1, 0, 5,2500,3400);
23. **FILLS**
24. **INSERT** **INTO** FILLS **VALUES** ('20397649','SUR-4123', 'Renee', 'Honywill', 'Bert', 'Malaysia', 'Kuching', 'Tower Bldg', '58', 21 ,01 ,2000,0, 1, 0, 0, 0, 4,'Amazing experience');
25. **INSERT** **INTO** FILLS **VALUES** ('30675402','SUR-1322', 'Clareta', 'Spare', 'Romney', 'Cuba', 'Remedios', 'Kamel Bldg', '2239', 30, 12, 1989,0,0, 1, 0, 0, 5,'Best part of the trip is making new memories and new friends');
26. **INSERT** **INTO** FILLS **VALUES** ('70864186','SUR-9088','Carree', 'Stammler', 'Jeggo', 'Portugal', 'Monte Agudo', 'XYZ Bldg', '8', 04, 06, 1999,0, 1, 0, 0, 0,5,'Learned a lot of interesting information from the museums we visited');
27. **INSERT** **INTO** FILLS **VALUES** ('81565234','SUR-1321', 'Ikey', 'Popplewell', 'Lempenny', 'Chile', 'Talcahuano', 'Hanoi Tower', '3', 29, 08, 1993,0, 0, 1, 0, 0, 4,NULL);
28. **INSERT** **INTO** FILLS **VALUES** ('81919972','SUR-1455', 'Devi', 'Grigoire', 'Duerden', 'United States', 'Lancaster', 'Lancaster bldg', '1', 19, 12, 2001,2, 1, 0, 0, 0, 3,'Enjoyed my time with friends but the hotel staff were rude');
29. **INSERT** **INTO** FILLS **VALUES** ('68464201','SUR-0010', 'Catlee', 'Cotterell', 'Latham', 'Qatar', 'Madīnat ash Shamāl', 'Salman Bldg', '481', 12, 03, 1969,3, 0, 0, 0, 1, 5,'Had so much fun discovering different parts of the city');
30. **INSERT** **INTO** FILLS **VALUES** ('28034052','SUR-3189', 'Tamarra', 'Scamal', 'Antrobus', 'Canada', 'Beloeil', 'Beloeil Bldg', '25', 15, 01, 2002,0, 0, 0, 0, 1,4,'All the activities we did were so entertaining' );
31. **INSERT** **INTO** FILLS **VALUES** ('20725761','SUR-0111', 'Silvie', 'Hellcat', 'Peplow', 'Estonia', 'Tartu', 'EST BLDG04', '283', 07, 12, 1979,0, 0, 1, 0, 0, 5, NULL);
32. **INSERT** **INTO** FILLS **VALUES** ('60484923','SUR-0108', 'Nedda', 'Bewick', 'Pattini', 'Nigeria', 'Uba', 'Osas bldg', '933', 13, 02, 1989,0, 0, 0, 0, 1,3,'The trip was too short, we needed more time to explore the city');
33. **INSERT** **INTO** FILLS **VALUES** ('63276737','SUR-7623', 'Biddie', 'McLaughlan', 'Caramuscia', 'Sweden', 'Umeå', 'Sky bldg', '11', 29, 04, 1970,0, 0, 1, 0, 0, 2,'The food served at the hotel was not good at all');

1. **HAS A5**

INSERT INTO HAS\_A5 VALUES('22109652','01','68464201','Jameele@gmail.com','+974-70-051-681','Grandmother',1980,06,12,'Jameele','Mella','Jedra','Qatar','Madīnat ash Shamāl','Salman Bldg','481',TIMESTAMP('2020-06-11 05:00:00' ), TIMESTAMP('2020-06-23 18:00:00'),'Qatar',1099 );

INSERT INTO HAS\_A5 VALUES('10946123','02','68464201','Charles@gmail.com','+56-79-195-1485','Brother',1975,04,07,'Charles','Mhelo','Latham','Qatar','Madīnat ash Shamāl','Bright Tower','13',TIMESTAMP('2020-06-11 05:00:00' ), TIMESTAMP('2020-06-23 18:00:00'),'Qatar',1099);

INSERT INTO HAS\_A5 VALUES('01066721','03','68464201','Bady@gmail.com','+974-70-859-021','Father',1991,01,02,'Bady','Mhelo','Latham','Qatar','Madīnat ash Shamāl','Salman Bldg','481',TIMESTAMP('2020-06-11 05:00:00' ), TIMESTAMP('2020-06-23 18:00:00'),'Qatar',1099 );

INSERT INTO HAS\_A5 VALUES('81301277','02','81919972','Lea@gmail.com','+1-309-5458-125','Friend',2000,12,21,'Lea','Hellcat','Pepeq','United States','NY','EST BLDG04','283',TIMESTAMP('2020-07-18 09:00:00'),TIMESTAMP('2020-07-29 14:00:00'),'Emirates',699 );

INSERT INTO HAS\_A5 VALUES('10981443','01','81919972','Jackline@gmail.com','+1-605-6436-187','Friend',2001,07,01,'Jackline','Main','Sercose','United States','NY','wkwk Bldg','54317',TIMESTAMP('2020-07-18 09:00:00'),TIMESTAMP('2020-07-29 14:00:00'),'Emirates',699 );

INSERT INTO HAS\_A5 VALUES('51667812','01','73587399','Mike@gmail.com','+4-791-14-11024','Brother',1965,01,12,'Mike','Coole','Jedrzaszkiewicz','Russia','Red','RD bldg.','1',TIMESTAMP('2020-08-17 22:00:00'),TIMESTAMP('2020-08-23 11:00:00'),'Amer Airwaves',669 );

INSERT INTO HAS\_A5 VALUES('51667813','02','73587399','Alfred@gmail.com','+4-712-5425-124','Brother',1970,12,30,'Alfred','Coole','Jedrzaszkiewicz',NULL,NULL,NULL,NULL,TIMESTAMP('2020-08-17 22:00:00'),TIMESTAMP('2020-08-23 11:00:00'),'Amer Airwaves',669 );

INSERT INTO HAS\_A5 VALUES('79668108','01','16951576','James@gmail.com','+60-79-784-1123','Sister',1995,05,25,'James','Matfin','Sacco','Indonesia','Monte Agudo','XYZ Bldg','8',TIMESTAMP('2020-08-2 21:00:00'),TIMESTAMP('2020-08-06 06:00:00'),'EasyJet',529 );

INSERT INTO HAS\_A5 VALUES('79668133','02','16951576','Rose@gmail.com',NULL,'Mother',2008,11,15,'Rose','Main','Bert','Indonesia','Timurjaya','wkwk bldg.','54317',TIMESTAMP('2020-08-2 21:00:00'),TIMESTAMP('2020-08-06 06:00:00'),'EasyJet',529 );

INSERT INTO HAS\_A5 VALUES('79668111','03','16951576','Ebra@gmail.com',NULL,'Mother',2004,10,23,'Ebra','Main','Bert','Indonesia','Timurjaya','wkwk bldg.','54317',TIMESTAMP('2020-08-2 21:00:00'),TIMESTAMP('2020-08-06 06:00:00'),'EasyJet',529 );

1. **BUYS**
2. INSERT INTO BUYS VALUES('16951576','PKNB0010');
3. INSERT INTO BUYS VALUES('20397649','PKNB0007');
4. INSERT INTO BUYS VALUES('20725761','PKNB0006');
5. INSERT INTO BUYS VALUES('28034052','PKNB0004');
6. INSERT INTO BUYS VALUES('30675402','PKNB0005');
7. INSERT INTO BUYS VALUES('60484923','PKNB0008');
8. INSERT INTO BUYS VALUES('63276737','PKNB0008');
9. INSERT INTO BUYS VALUES('68464201','PKNB0001');
10. INSERT INTO BUYS VALUES('70864186','PKNB0009');
11. INSERT INTO BUYS VALUES('73587399','PKNB0002');
12. INSERT INTO BUYS VALUES('81565234','PKNB0003');
13. INSERT INTO BUYS VALUES('81919972','PKNB0011');
14. **RESERVES**

INSERT INTO RESERVES VALUES ('EMP-0008','RES-0001');

INSERT INTO RESERVES VALUES ('EMP-0008','RES-0002');

INSERT INTO RESERVES VALUES ('EMP-0008','RES-0003');

INSERT INTO RESERVES VALUES ('EMP-0007','RES-0004');

INSERT INTO RESERVES VALUES ('EMP-0007','RES-0005');

INSERT INTO RESERVES VALUES ('EMP-0010','RES-0006');

INSERT INTO RESERVES VALUES ('EMP-0010','RES-0007');

INSERT INTO RESERVES VALUES ('EMP-0013','RES-0008');

INSERT INTO RESERVES VALUES ('EMP-0013','RES-0009');

INSERT INTO RESERVES VALUES ('EMP-0007','RES-0010');

INSERT INTO RESERVES VALUES ('EMP-0008','RES-0011');

INSERT INTO RESERVES VALUES ('EMP-0008','RES-0012');

1. **CUST\_EMAIL**

INSERT INTO CUST\_EMAIL VALUES ('renee.bert@hotmail.com','20397649');

INSERT INTO CUST\_EMAIL VALUES ('renee\_H.bert@gmail.com','20397649');

INSERT INTO CUST\_EMAIL VALUES ('clareta.spare@outlook.com', '30675402');

INSERT INTO CUST\_EMAIL VALUES ('carree.jeggo@gmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('carree@gmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('ikey.lempenny@hotmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('devi.duerden@hotmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('catlee.letham@gmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('tamarra.antrobus@hotmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('selvie.peplow@hotmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('noelani.jedrzaszkiewicz@gmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('del.sacco@hotmail.com', '20397649');

INSERT INTO CUST\_EMAIL VALUES ('delsacco0o0@gmail.com', '20397649');

1. **PHONE\_NBR**

INSERT INTO PHONE\_NBR VALUES ('+60-70-712-2334','20397649');

INSERT INTO PHONE\_NBR VALUES ('+60-72-809-1004','20397649');

INSERT INTO PHONE\_NBR VALUES ('+53-766-4652-21','30675402');

INSERT INTO PHONE\_NBR VALUES ('+3-510-321-5568','70864186');

INSERT INTO PHONE\_NBR VALUES ('+56-01-454-1588','81565234');

INSERT INTO PHONE\_NBR VALUES ('+56-11-201-1108','81565234');

INSERT INTO PHONE\_NBR VALUES ('+1-7058-963-112','81919972');

INSERT INTO PHONE\_NBR VALUES ('+9-74-0333-3222','68464201');

INSERT INTO PHONE\_NBR VALUES ('+9-73-0813-1029','68464201');

INSERT INTO PHONE\_NBR VALUES ('+1-726-9231-015','28034052');

INSERT INTO PHONE\_NBR VALUES ('+37-270-7755-11','20725761');

INSERT INTO PHONE\_NBR VALUES ('+4-102-3698-574','73587399');

INSERT INTO PHONE\_NBR VALUES ('+4-914-3138-373','73587399');

INSERT INTO PHONE\_NBR VALUES ('+6-202-1115-193','16951576');

INSERT INTO PHONE\_NBR VALUES ('+50-701-425-36','60484923');

INSERT INTO PHONE\_NBR VALUES ('+41-67-6824-931','63276737');

1. **MR\_MEDICINE**

INSERT INTO MR\_MEDICINE VALUES('No medicine','MR-00001','16951576');

INSERT INTO MR\_MEDICINE VALUES('Anticoagulants','MR-00002','20397649');

INSERT INTO MR\_MEDICINE VALUES('Diuretics','MR-00003','20725761');

INSERT INTO MR\_MEDICINE VALUES('Pain Killers,'MR-00004','28034052');

INSERT INTO MR\_MEDICINE VALUES('Glucophage','MR-00005','30675402');

INSERT INTO MR\_MEDICINE VALUES('entecavir','MR-00006','60484923');

INSERT INTO MR\_MEDICINE VALUES('Metformin','MR-00006','60484923');

INSERT INTO MR\_MEDICINE VALUES('No medicine','MR-00007','68464201');

INSERT INTO MR\_MEDICINE VALUES('No medicine','MR-00008','70864186');

INSERT INTO MR\_MEDICINE VALUES('Triptans','MR-00009','73587399');

INSERT INTO MR\_MEDICINE VALUES('Glumetza','MR-00009','73587399');

INSERT INTO MR\_MEDICINE VALUES('Angiotensin','MR-00010','81919972');

1. **MED\_ALLERGY**
2. INSERT INTO MED\_ALLERGY VALUES('No Allergies','MR-00001','16951576');
3. INSERT INTO MED\_ALLERGY VALUES('Peanuts','MR-00002','20397649');
4. INSERT INTO MED\_ALLERGY VALUES('Eggs','MR-00003','20725761');
5. INSERT INTO MED\_ALLERGY VALUES('No Allergies','MR-00004','28034052');
6. INSERT INTO MED\_ALLERGY VALUES('Milk','MR-00005','30675402');
7. INSERT INTO MED\_ALLERGY VALUES('Pollen','MR-00006','60484923');
8. INSERT INTO MED\_ALLERGY VALUES('Milk','MR-00006','60484923');
9. INSERT INTO MED\_ALLERGY VALUES('No Allergies','MR-00007','68464201');
10. INSERT INTO MED\_ALLERGY VALUES('No Allergies','MR-00008','70864186');
11. INSERT INTO MED\_ALLERGY VALUES('Wheat','MR-00009','73587399');
12. INSERT INTO MED\_ALLERGY VALUES('Peanuts','MR-00009','73587399');
13. INSERT INTO MED\_ALLERGY VALUES('No Allergies','MR-00010','81919972');
14. **MED\_INJURY**

INSERT INTO MED\_INJURY VALUES('Sprain','MR-00001','16951576');

INSERT INTO MED\_INJURY VALUES('Broken Bone','MR-00001','16951576');

INSERT INTO MED\_INJURY VALUES('Burns','MR-00002','20397649');

INSERT INTO MED\_INJURY VALUES('Sprain','MR-00002','20397649');

INSERT INTO MED\_INJURY VALUES('No Injury','MR-00003','20725761');

INSERT INTO MED\_INJURY VALUES('No Injury','MR-00004','28034052');

INSERT INTO MED\_INJURY VALUES('No Injury','MR-00005','30675402');

INSERT INTO MED\_INJURY VALUES('Sprain','MR-00006','60484923');

INSERT INTO MED\_INJURY VALUES('No injury','MR-00007','68464201');

INSERT INTO MED\_INJURY VALUES('Joint Dislocation','MR-00008','70864186');

INSERT INTO MED\_INJURY VALUES('No Injury','MR-00009','73587399');

INSERT INTO MED\_INJURY VALUES('No Injury','MR-00010','81919972');

1. **MED\_CHRONIC**

INSERT INTO MED\_CHRONIC VALUES ('NONE','MR-00001','16951576');

INSERT INTO MED\_CHRONIC VALUES ('Arthritis','MR-00004','28034052');

INSERT INTO MED\_CHRONIC VALUES ('Diabetes','MR-00005','30675402');

INSERT INTO MED\_CHRONIC VALUES ('Diabetes','MR-00009','73587399');

INSERT INTO MED\_CHRONIC VALUES ('Hepatitis','MR-00006','60484923');

INSERT INTO MED\_CHRONIC VALUES ('Diabetes','MR-00006','60484923');

INSERT INTO MED\_CHRONIC VALUES ('Migraine','MR-00009','73587399');

INSERT INTO MED\_CHRONIC VALUES ('NONE','MR-00007','68464201');

INSERT INTO MED\_CHRONIC VALUES ('High Blood Pressure','MR-00003','20725761');

INSERT INTO MED\_CHRONIC VALUES ('Heart Disease','MR-00002','20397649');

INSERT INTO MED\_CHRONIC VALUES ('NONE','MR-00008','70864186');

INSERT INTO MED\_CHRONIC VALUES ('Blood Pressure','MR-00010','81919972');

1. **TRIP\_ACTIVITY**

INSERT INTO TRIP\_ACTIVITY VALUES('Hiking','Adventurous Trip','PKNB0001');

INSERT INTO TRIP\_ACTIVITY VALUES('Camping','Adventurous Trip','PKNB0001');

INSERT INTO TRIP\_ACTIVITY VALUES('Biking','Adventurous Trip','PKNB0001');

INSERT INTO TRIP\_ACTIVITY VALUES('Safari Tour','Wildlife Trip','PKNB0002');

INSERT INTO TRIP\_ACTIVITY VALUES('Hunting','Wildlife Trip','PKNB0002');

INSERT INTO TRIP\_ACTIVITY VALUES('Conference','Medical Trip','PKNB0003');

INSERT INTO TRIP\_ACTIVITY VALUES('Visiting a temple','Pilgrimage Trip','PKNB0004');

INSERT INTO TRIP\_ACTIVITY VALUES('Fishing','Eco Trip','PKNB0005');

INSERT INTO TRIP\_ACTIVITY VALUES('Kayaking tour','Eco Trip','PKNB0005');

INSERT INTO TRIP\_ACTIVITY VALUES('Museums','Cultural Trip','PKNB0006');

INSERT INTO TRIP\_ACTIVITY VALUES('Festival','Cultural Trip','PKNB0006');

INSERT INTO RIP\_ACTIVITY VALUES('Pool','Cruise Trip','PKNB0007');

INSERT INTO TRIP\_ACTIVITY VALUES('Sea','Cruise Trip','PKNB0007');

INSERT INTO TRIP\_ACTIVITY VALUES('Nature Act','Wellness Trip','PKNB0008');

INSERT INTO TRIP\_ACTIVITY VALUES('Zoo','Family Trip','PKNB0009');

INSERT INTO TRIP\_ACTIVITY VALUES('Hot Air Balloon','Family Trip','PKNB0009');

INSERT INTO TRIP\_ACTIVITY VALUES('Party', 'Honeymoon Trip','PKNB0010');

1. *GENERATED REPORTS:*
2. **CUSTOMER**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **FirstName** | **MiddleName** | **LastName** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |
| **16951576** | Del | Matfin | Sacco | Indonesia | Timurjaya | wkwk bldg | 54317 | 8 | 12 | 1993 |
| **20397649** | Renee | Honywill | Bert | Malaysia | Kuching | Tower Bldg | 58 | 21 | 1 | 2000 |
| **20725761** | Silvie | Hellcat | Peplow | Estonia | Tartu | EST BLDG04 | 283 | 7 | 12 | 1979 |
| **28034052** | Tamarra | Scamal | Antrobus | Canada | Beloeil | Beloeil Bldg | 25 | 15 | 1 | 2002 |
| **30675402** | Clareta | Spare | Romney | Cuba | Remedios | Kamel Bldg | 2239 | 30 | 12 | 1989 |
| **60484923** | Nedda | Bewick | Pattini | Nigeria | Uba | Osas bldg | 933 | 13 | 2 | 1989 |
| **63276737** | Biddie | McLaughlan | Caramuscia | Sweden | Umeå | Sky bldg | 11 | 29 | 4 | 1970 |
| **68464201** | Catlee | Cotterell | Latham | Qatar | Madīnat ash Shamāl | Salman Bldg | 481 | 12 | 3 | 1969 |
| **70864186** | Carree | Stammler | Jeggo | Portugal | Monte Agudo | XYZ Bldg | 8 | 4 | 6 | 1999 |
| **73587399** | Noelani | Coole | Jedrzaszkiewicz | Russia | Sobinka | Basel Bldg | 68 | 19 | 8 | 1960 |
| **81565234** | Ikey | Popplewell | Lempenny | Chile | Talcahuano | Hanoi Tower | 3 | 29 | 8 | 1993 |
| **81919972** | Devi | Grigoire | Duerden | United States | Lancaster | Lancaster bldg | 1 | 19 | 12 | 2001 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Accompanying\_people\_nbr** | **Stranger** | **Butterfly** | **TrueFriend** | **Barnacle** | **Ticket\_Nb** | **SSCode** |
| **16951576** | 3 | 1 | 0 | 0 | 0 | 79668008 | EMP-0014 |
| **20397649** | 0 | 1 | 0 | 0 | 0 | 7691915 | EMP-0006 |
| **20725761** | 0 | 0 | 1 | 0 | 0 | 49440922 | EMP-0005 |
| **28034052** | 0 | 0 | 0 | 0 | 1 | 42719959 | EMP-0005 |
| **30675402** | 0 | 0 | 1 | 0 | 0 | 31831850 | EMP-0014 |
| **60484923** | 0 | 0 | 0 | 0 | 1 | 80109491 | EMP-0014 |
| **63276737** | 0 | 0 | 1 | 0 | 0 | 10372901 | EMP-0006 |
| **68464201** | 3 | 0 | 0 | 0 | 1 | 9314230 | EMP-0014 |
| **70864186** | 0 | 1 | 0 | 0 | 0 | 83282911 | EMP-0006 |
| **73587399** | 2 | 0 | 1 | 0 | 0 | 51667681 | EMP-0006 |
| **81565234** | 0 | 0 | 1 | 0 | 0 | 21615125 | EMP-0005 |
| **81919972** | 2 | 1 | 0 | 0 | 0 | 68962709 | EMP-0014 |

1. **EMPLOYEE**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NSSF** | **Salary** | **FirstName** | **Middle**  **Name** | **Last**  **Name** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |
| **EMP-0001** | 2000 | Lucy | Paula | Casey | Lebanon | Beirut | Sama Beirut | Ashrafieh | 20 | 11 | 1986 |
| **EMP-0002** | 2000 | Jenna | Matilda | Mason | Lebanon | Beirut | Sama Beirut | Ashrafieh | 23 | 1 | 1990 |
| **EMP-0003** | 2700 | Dominik | Alan | Farrell | Lebanon | Beirut | Sama Beirut | Ashrafieh | 1 | 10 | 1993 |
| **EMP-0004** | 1082 | Alan | Jeffrey | Walter | Lebanon | Beirut | Sama Beirut | Ashrafieh | 23 | 1 | 1989 |
| **EMP-0005** | 1700 | Harold | Mathew | Peterson | Lebanon | Beirut | Sama Beirut | Ashrafieh | 3 | 4 | 1995 |
| **EMP-0006** | 900 | John | Victor | Brooks | Lebanon | Beirut | Sama Beirut | Ashrafieh | 20 | 3 | 1992 |
| **EMP-0007** | 1200 | Andrea | Nelly | Tucker | Lebanon | Beirut | Sama Beirut | Ashrafieh | 22 | 6 | 1996 |
| **EMP-0008** | 3000 | Christel | Olivia | Cook | France | Paris | Tour First | Place des Saisons | 16 | 1 | 1993 |
| **EMP-0009** | 4000 | Angelina | Carrie | Jackson | USA | New York | Empire State | Fifth Avenue | 12 | 8 | 1992 |
| **EMP-0010** | 2243 | Frederik | Ivan | Taylor | Lebanon | Beirut | Sama Beirut | Ashrafieh | 8 | 5 | 1996 |
| **EMP-0011** | 2943 | Albert | Theodore | Gibson | USA | New York | NY Sequare | NY | 25 | 12 | 1998 |
| **EMP-0012** | 850 | Sean | Michael | Williams | Lebanon | Beirut | Sama Beirut | Ashrafieh | 14 | 1 | 1990 |
| **EMP-0013** | 1300 | Kamil | Adham | Nassif | Lebanon | Beirut | Sama Beirut | Ashrafieh | 14 | 1 | 1990 |
| **EMP-0014** | 900 | Adam | Zen | Khalifa | Lebanon | Beirut | Sama Beirut | Hamra | 20 | 3 | 1992 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **NSSF** | **Email** | **Phone\_Number** | **Martial\_Status** | **Gender** | **Super\_NSSF** | **Dep\_Nbr** |
| **EMP-0001** | [l.casey@fakhrtours.com](mailto:l.casey@fakhrtours.com) | +961-72-865-549 | M | F | NULL | 35547933 |
| **EMP-0002** | [j.mason@fakhrtours.com](mailto:j.mason@fakhrtours.com) | +961-70-333-615 | M | F | EMP-0003 | 2945082 |
| **EMP-0003** | [d.farrell@fakhrtours.com](mailto:d.farrell@fakhrtours.com) | +961-71-025-550 | M | M | NULL | 2945082 |
| **EMP-0004** | [a.jeffrey@fakhrtours.com](mailto:a.jeffrey@fakhrtours.com) | +961-81-202-112 | M | M | EMP-0001 | 35547933 |
| **EMP-0005** | [h.peterson@fakhrtours.com](mailto:h.peterson@fakhrtours.com) | +961-81-868-101 | S | M | NULL | 79463026 |
| **EMP-0006** | [j.brooks@fakhrtours.com](mailto:j.brooks@fakhrtours.com) | +961-03-214-365 | S | M | EMP-0005 | 79463026 |
| **EMP-0007** | [a.tucker@fakhrtours.com](mailto:a.tucker@fakhrtours.com) | +961-01-221-607 | S | F | NULL | 29178485 |
| **EMP-0008** | [c.cook@fakhrtours.com](mailto:c.cook@fakhrtours.com) | +33-203-789-555 | M | F | NULL | 15469484 |
| **EMP-0009** | [a.jackson@fakhrtours.com](mailto:a.jackson@fakhrtours.com) | +1-413-634-3022 | S | F | EMP-0011 | 30519143 |
| **EMP-0010** | [f.taylor@fakhrtours.com](mailto:f.taylor@fakhrtours.com) | +961-80-231-676 | M | F | EMP-0007 | 29178485 |
| **EMP-0011** | [a.gibson@fakhrtours.com](mailto:a.gibson@fakhrtours.com) | +1-313-654-3022 | S | M | NULL | 30519143 |
| **EMP-0012** | [s.williams@fakhrtours.com](mailto:s.williams@fakhrtours.com) | +961-090-783 | M | M | NULL | 68534448 |
| **EMP-0013** | [a.nassif@fakhrtours.com](mailto:a.nassif@fakhrtours.com) | +961-03-314-506 | M | M | NULL | 13096894 |
| **EMP-0014** | [a.khalifa@fakhrtours.com](mailto:a.khalifa@fakhrtours.com) | +961-02-204-305 | M | M | EMP-0005 | 79463026 |

1. **DEPARTMENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department\_nb** | **Name** | **Description** | **Manager\_NSSF** | **Expense\_ID** |
| **2945082** | Marketing | Responsible for marketing company’s travel packages | EMP-0003 | 5 |
| **13096894** | Package Design | It is the department which organize and design the travel packages | EMP-0013 | 2 |
| **15469484** | International Communication | Responsible for communicating with partners and reservation | EMP-0008 | 1 |
| **29178485** | Management | Responsible for managing documents and controlling departments | EMP-0007 | 3 |
| **30519143** | Finance | It manages company financial issues | EMP-0011 | 9 |
| **35547933** | IT | Responsible for technical support | EMP-0001 | 7 |
| **68534448** | Human Resource | HR responsible for hiring and firing employees as well as managing their problems | EMP-0012 | 8 |
| **79463026** | Client Service | The department that is responsible for client services and communicating with them | EMP-0005 | 4 |

1. **EXPENSE**

|  |  |  |
| --- | --- | --- |
| **ID** | **Salary** | **Partner\_cost** |
| **1** | 100000 | 497000 |
| **2** | 230000 | 74000 |
| **3** | 10000 | 33000 |
| **4** | 66000 | 1000 |
| **5** | 89500 | 76832 |
| **6** | 12000 | 5000 |
| **7** | 21000 | 10000 |
| **8** | 11000 | 10000 |
| **9** | 53000 | 100000 |

1. **DESTINATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Issuance\_nb** | **Country** | **City** |
| **DST-0001** | 10000000 | France | Paris |
| **DST-0002** | 10000001 | Switzerland | Bern |
| **DST-0003** | 10000002 | France | Lyon |
| **DST-0004** | 10000003 | Lebanon | Beirut |
| **DST-0005** | 10000004 | France | Menton |
| **DST-0006** | 10000005 | Japan | Tokyo |
| **DST-0007** | 10000006 | United States | Washington D.C |
| **DST-0008** | 10000007 | Australia | Sydney |
| **DST-0009** | 10000008 | Canada | Ottawa |
| **DST-0010** | 10000009 | China | Beijing |
| **DST-0011** | NULL | Germany | Berlin |

1. **SITE**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Address** | **City** | **World**  **\_rank** | **Category** | **Phone\_nb** | **description** | **DID** |
| **Ancient Theatre of Fourvière** | 0 Huxley Center | Lyon | 161 | History | +33-47-243-311 | Remains of roman theater, rated 161st worldwide, located in 0 Huxley Center, Lyon. For more info contact +33-47-243-311. | DST-0003 |
| **Forbidden City** | 499 Badeau Point | Beijing | 50 | Palace | +86-18-411-6322 | Palace complex from 1420 with a museum, rated 50th worldwide, located in 499 Badeau Point, Beijing. For more info contact +86-18-411-6322. | DST-0010 |
| **Four Season Hotel** | Berlin street 9 | Berlin | 34 | Hotel | +49-7141-956831 | Famous five stars hotel, located on calm street in berlin,for more info contact +49-7141-9568311 | DST-0011 |
| **Gurten** | 77 Summerview Street | Bern | 232 | Restaurant | +41-319-703-333 | Swiss Restaurant with very elegant view, rated 232th worldwide, located in 77 Summerview Street, Bern. For more info contact +41-319-703-333. | DST-0002 |
| **Mirazur** | 2917 Westend Alley | Menton | 1 | Restaurant | +33-700-5555-55 | Mirazur is no. 1 restaurant around world, located in 2917 Westend Alley, Menton. For more info contact +33-700-5555-55. | DST-0005 |
| **National Gallery Art** | 97297 Lakeland Circle | Washington D.C | 100 | Art gallery | +1-865-912-1332 | Famous art gallery in Washington, rated 100th worldwide, located in 97297 Lakeland Circle, Washington D.C. For more info contact (865) 6662836. | DST-0007 |
| **Rideau Canal** | 6906 Vernon Road | Ottawa | 925 | Ice skating | +1-663-472-1943 | A perfect place for Ice skating and boating, rated 325th worldwide, located in Vernon Road, Ottawa. For more info contact +1-663-472-1943. | DST-0009 |
| **Sunset Hotel** | 260 1st Way | Paris | 112 | Hotel | +33-231-4343-51 | Famous five stars hotel, located on calm street in Paris,For more info contact +33-231-4343-51. | DST-0001 |
| **SurSock Museum** | Ashrafieh | Beirut | 400 | Art museum | +961-01-202-001 | Modern Art Museum in a 1912 villa, rated 400th worldwide, located in Ashrafieh,Beirut. For more info contact +961-01-202-001. | DST-0004 |
| **Sydney Opera House** | 6 Bartillon Way | Sydney | 20 | Art Centre | +61-998-90-8499 | Australian iconic site and Performing Art Centre, rated 20th worldwide, located in 6 Bartillon Way, Canberra. For more info contact +61-998-90-8499. | DST-0008 |
| **Tokyo SkyTree** | 0 Derek Place | Tokyo | 300 | Sky view | +81-402-243-314 | Japanese Tower, rated 300th worldwide, located in 0 Derek Place, Tokyo. For more info contact +81-402-243-314 | DST-0006 |

1. **PACKAGE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trip\_nb** | **Description** | **Cost** | **Start\_date** | **End\_date** | **Dep\_nbr** |
| **PKNB0001** | Adventure Tourism | 1759 | 2020-12-25 | 2021-01-05 | 13096894 |
| **PKNB0002** | Wildlife Tourism | 1259 | 2021-02-13 | 2021-02-20 | 15469484 |
| **PKNB0003** | Medical Tourism | 1099 | 2021-02-06 | 2021-02-27 | 13096894 |
| **PKNB0004** | Pilgrimage Tourism | 2599 | 2020-12-20 | 2021-01-20 | 30519143 |
| **PKNB0005** | Eco Tourism | 1099 | 2020-12-01 | 2020-12-07 | 2945082 |
| **PKNB0006** | Cultural Tourism | 1259 | 2020-12-23 | 2020-12-29 | 30519143 |
| **PKNB0007** | Cruise Tourism | 1099 | 2021-01-01 | 2021-01-12 | 2945082 |
| **PKNB0008** | Wellness Tourism | 759 | 2021-03-01 | 2021-03-06 | 15469484 |
| **PKNB0009** | Family Tourism | 799 | 2020-06-20 | 2020-07-01 | 29178485 |
| **PKNB0010** | Honeymoon Tourism | 2599 | 2020-08-20 | 2020-09-15 | 29178485 |
| **PKNB0011** | Nature Adore | 1099 | 2021-01-23 | 2021-01-28 | 13096894 |

1. **OFFER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coupon\_Code** | **Active\_duration** | **Description** | **Required\_pts** | **LC\_NB** |
| **00381135** | 2020-10-11 12:00:00.0 | 350$ offer: Perfect day getaway cruise departs from Orlando | 400 | 84927676 |
| **5190712** | 2020-12-01 13:01:01.0 | 600$ offer: 3 star hotel including flight from Egypt to Turkey | 700 | 8514744 |
| **14321115** | 2020-09-09 09:09:59.0 | 300$ offer: Bahamas perfect day cruise departs from Miami | 500 | 26766358 |
| **17050286** | 2020-02-17 01:48:10.0 | 818$ offer: Southern Caribbean Cruise departs from Cape Liberty onboard Anthem of the Seas | 340 | 55002229 |
| **33467224** | 2020-12-25 18:01:01.0 | 649$ offer: Bermuda cruise departs from Cape Liberty, New Jersey, onboard Freedom of the Seas | 400 | 54786416 |
| **70858802** | 2019-01-11 04:30:10.0 | 2000$ offer: 4 star hotel including flight from KSA to Spain | 1390 | 66997013 |
| **94509368** | 2020-12-31 11:59:59.0 | 993$ offer: 5 star hotel including flight from Tunisia to Italy | 400 | 43394385 |
| **99019698** | 2018-03-05 01:00:12.0 | 2456$ offer: Apartment including flight from Jordan to Greece | 2605 | 86412122 |
| **99809635** | 2020-06-11 18:00:00.0 | 1500$ offer: 5 star hotel including flight from Qatar to London | 1500 | 66461696 |

1. **LOYALTY\_CARD**

|  |  |  |  |
| --- | --- | --- | --- |
| **Loyalty\_card\_nb** | **money\_spent** | **Nb\_of\_previous\_trips** | **Loyalty\_points** |
| **8514744** | 6000 | 8 | 2500 |
| **13319670** | 3400 | 5 | 2500 |
| **26766358** | 1000 | 2 | 90 |
| **43394385** | 1099 | 2 | 301 |
| **54786416** | 10000 | 10 | 8000 |
| **55002229** | 3055 | 4 | 1008 |
| **66461696** | 600 | 1 | 600 |
| **66997013** | 2666 | 3 | 2666 |
| **84927676** | 4999 | 3 | 3000 |
| **86412122** | 799 | 1 | 799 |

1. **ACCOMMODATION**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Dest\_ID** | **Res\_ID** | **Price** | **Size** | **Building** | **Street** | **Apartment** | **Facility** | **Room**  **\_type** | **Meal**  **\_Plan** |
| **ACC-0009** | DST-0001 | RES-0012 | 855.00 | Medium | La Cite | Paris  Street | 5 | Facility | Master   Rooms | Dinner |
| **ACC-0001** | DST-0004 | RES-0011 | 809.56 | Large | The Edge | Berlin  Street | 50 | Facility | Maste   Rooms | Breakfast |
| **ACC-0002** | DST-0004 | RES-0011 | 512.35 | Small | The Edge | Berlin  Street | 20 | Facility | Single  Rooms | Lunch |
| **ACC-0003** | DST-0004 | RES-0011 | 677.00 | Medium | The Edge | Berlin Street | 30 | Facility | Master Rooms | Dinner |
| **ACC-0004** | DST-0001 | RES-0012 | 1009.50 | Large | La Cite | Paris Street | 10 | Facility | Master   Rooms | All Meals |
| **ACC-0005** | DST-0007 | RES-0005 | 509.99 | Large | High  Towers | High   Street | 150 | Facility | Master  Rooms | Lunch |
| **ACC-0006** | DST-0001 | RES-0012 | 709.50 | Small | La Cite | Paris Street | 30 | Facility | Master   Rooms | Dinner |
| **ACC-0007** | DST-0006 | NULL | 599.90 | Large | Cozy bdg | Greenfields St. | 130 | Facility | Master  Rooms | All day |
| **ACC-0008** | DST-0005 | NULL | 499.90 | Small | Starco | Leechwell St. | 20 | Facility | Master  Rooms | Breakfast |
| **ACC-0010** | DST-0007 | RES-0005 | 450.56 | Small | High Towers | High Street | 60 | Facility | Master  Rooms | All Lunch |

1. **RESERVATION**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Reservation\_Name** | **Time** | **Date** | **Location** | **Trip\_Nbr** | **Site\_Name** |
| **RES-0001** | Res04 | 2020-12-27 10:00:00 | 2020-11-15 | Ottowa | PKNB0001 | Rideau Canal |
| **RES-0002** | Res06 | 2020-09-01 17:00:00 | 2020-05-23 | Menton | PKNB0010 | Mirazur |
| **RES-0003** | Res01 | 2020-12-25 09:00:00 | 2020-06-02 | Beijing | PKNB0006 | Forbidden City |
| **RES-0004** | Res03 | 2020-06-24 12:00:00 | 2020-01-10 | United States | PKNB0009 | National Gallery Art |
| **RES-0005** | Res06 | 2021-02-10 21:00:00 | 2020-07-23 | United States | PKNB0003 | NULL |
| **RES-0006** | Res05 | 2021-03-05 21:00:00 | 2020-11-16 | Switzerland | PKNB0008 | Gurten |
| **RES-0007** | Res02 | 2020-12-03 15:30:00 | 2020-09-18 | Japan | PKNB0005 | Tokyo SkyTree |
| **RES-0008** | Res03 | 2020-06-23 22:45:00 | 2020-01-23 | Lebanon | PKNB0009 | SurSock Museum |
| **RES-0009** | Res04 | 2020-12-27 17:25:00 | 2020-05-15 | Lyon | PKNB0006 | Ancient Theatre of Fourvière |
| **RES-0010** | Res06 | 2021-01-07 18:15:00 | 2020-09-23 | Sydney | PKNB0007 | Sydney Opera House |
| **RES-0011** | Res07 | 2021-01-23 03:30:00 | 2020-09-28 | Berlin | PKNB0011 | Four Season Hotel |
| **RES-0012** | Res08 | 2020-12-20 11:00:00 | 2020-09-28 | Paris | PKNB0004 | Sunset Hotel |

1. **TICKET**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ticket\_Number** | **Bill** | **Airline\_Name** | **Arrival\_time** | **Departure\_time** |
| **01066721** | 1099 | Qatar | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 |
| **07691915** | 539 | Ukraine Swift | 2020-10-02 08:00:00 | 2020-10-20 13:00:00 |
| **09314230** | 1099 | Qatar | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 |
| **10372901** | 499 | MEA | 2020-12-25 22:00:00 | 2021-01-02 11:00:00 |
| **10946123** | 1099 | Qatar | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 |
| **10981443** | 699 | Emirates | 2020-07-18 09:00:00 | 2020-07-29 14:00:00 |
| **21615125** | 799 | China Airway | 2020-07-01 08:00:00 | 2020-07-20 15:00:00 |
| **22109652** | 1099 | Qatar | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 |
| **31831850** | 899 | Singapore Travel | 2020-06-01 06:00:00 | 2020-06-09 17:00:00 |
| **42719959** | 1599 | Thai Sea Travel | 2020-08-08 07:00:00 | 2020-09-01 12:00:00 |
| **49440922** | 729 | Lufthansa Waves | 2020-08-01 06:00:00 | 2020-08-12 11:00:00 |
| **51667681** | 669 | Amer Airwaves | 2020-08-17 22:00:00 | 2020-08-23 11:00:00 |
| **51667812** | 669 | Amer Airwaves | 2020-08-17 22:00:00 | 2020-08-23 11:00:00 |
| **51667813** | 669 | Amer Airwaves | 2020-08-17 22:00:00 | 2020-08-23 11:00:00 |
| **68962709** | 699 | Emirates | 2020-07-18 09:00:00 | 2020-07-29 14:00:00 |
| **79668008** | 529 | EasyJet | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 |
| **79668108** | 529 | EasyJet | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 |
| **79668111** | 529 | EasyJet | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 |
| **79668133** | 529 | EasyJet | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 |
| **80109491** | 2990 | Mid Water | 2020-12-10 21:00:00 | 2021-02-10 06:00:00 |
| **81301277** | 699 | Emirates | 2020-07-18 09:00:00 | 2020-07-29 14:00:00 |
| **83282911** | 599 | Hainan | 2020-08-24 07:00:00 | 2020-09-02 16:00:00 |

1. **SURVEY**

|  |  |  |
| --- | --- | --- |
| **ID** | **Rating** | **Feedback** |
| **SUR-0010** | 5 | Had so much fun discovering different parts of the city |
| **SUR-0108** | 3 | The trip was too short, we needed more time to explore the city |
| **SUR-0111** | 5 | NULL |
| **SUR-1321** | 4 | NULL |
| **SUR-1322** | 5 | Best part of the trip is making new memories and new friends |
| **SUR-1455** | 3 | Enjoyed my time with friends but the hotel staff were rude |
| **SUR-3189** | 4 | All the activities we did were so entertaining |
| **SUR-4123** | 4 | Amazing experience |
| **SUR-7623** | 2 | The food served at the hotel was not good at all |
| **SUR-9088** | 5 | Learned a lot of interesting information from the museums we visited |

1. **PARTNERSHIP**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Dep\_ID** | **Function** | **Bill** | **Contact\_number** | **Service**  **\_validity** |
| **Bright Case International Law Firm** | 29178485 | Attorney company to deal with legal issues | 3300000 | +33-180-2719-90 | 2026-01-01 |
| **Cedar Bank** | 30519143 | Bank | NULL | +961-01-333-038 | NULL |
| **Duck Marketing** | 2945082 | A marketing partner | 76400 | +44-44-4569-100 | 2024-01-12 |
| **Fidelty Assurance & Reinsurance Co.** | 30519143 | Medical Insurance | 780000 | +961-70084048 | 2022-05-23 |
| **Four Seasons** | 15469484 | Hotel & Resort | 1120000 | +49-7141-9568311 | 2023-01-01 |
| **Italy Luxury Car Hire** | 15469484 | Hire all different types of cars | 54000 | +39-345-710-704 | 2020-12-28 |
| **Mediterranean Sea Ships** | 15469484 | Ship travel company | 33000 | +961-01802888 | 2022-03-12 |
| **Middle East Airlines** | 15469484 | Air travel company | 233000 | +961-01-629-999 | 2024-05-01 |
| **Mirazur** | 15469484 | Restaurant | 65000 | +33-700-5555-55 | 2022-11-22 |
| **Penguin Data Management** | 29178485 | A Management company that provide database organizing | 33000 | +1-323-464-3122 | 2022-12-22 |
| **Security Shell** | 35547933 | Cyber security company | 10000 | +41-44-4669-000 | 2021-09-12 |
| **Swiss Moving** | 15469484 | Transportation company in switzerland | 810000 | +41-44-4669-000 | 2021-09-12 |

1. **VISA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issuance\_Number** | **Expiration\_Date** | **Status** | **Embassy** | **Purpose** | **Nationality** |
| **10000000** | 2020-12-07 | Accepted | French | Student | Lebanese |
| **10000001** | 2021-10-05 | InProcess | Switzerland | Work | French |
| **10000002** | 2021-02-03 | Rejected | French | Visit | Lebanese |
| **10000003** | 2020-03-02 | InProcess | Lebanon | Work | Japanese |
| **10000004** | 2020-04-30 | InProcess | French | Visit | Egyptian |
| **10000005** | 2021-11-22 | Accepted | Japan | Work | Switzerland |
| **10000006** | 2021-11-11 | Accepted | United States | Student | Korean |
| **10000007** | 2020-10-17 | Accepted | Australia | Visit | Chinese |
| **10000008** | 2021-07-18 | Accepted | Canada | Work | American |
| **10000009** | 2020-09-01 | Rejected | China | Visit | French |

1. **CONTRACT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Reference\_Nb** | **Currency** | **Policy** | **details** | **Date\_of**  **\_payment** | **Amount**  **\_paid** | **Payment**  **\_method** | **CID** |
| **01600438** | Dollar | Policy4 | Policy 4 for CREDIT CARD payments | 2020-01-10 | 1099.00 | CREDIT CARD | 30675402 |
| **04183109** | EURO | Policy1 | Policy 1 for CASH payments | 2020-11-11 | 694.99 | CASH | 63276737 |
| **25499730** | Dollar | Policy3 | Policy 3 for ACCOUNT payments | 2020-06-30 | 699.99 | ACCOUNT | 70864186 |
| **27962343** | Dollar | Policy2 | Policy 2 for LOAN payments | 2020-04-17 | 899.99 | LOAN | 20397649 |
| **30597114** | EURO | Policy2 | Policy 2 for LOAN payments | 2020-03-19 | 1799.00 | LOAN | 73587399 |
| **32791014** | Canadian Dollar | Policy2 | Policy 2 for LOAN payments | 2020-05-12 | 3199.99 | LOAN | 28034052 |
| **38584341** | Dollar | Policy1 | Policy 1 for CASH payments | 2020-02-03 | 799.99 | CASH | 16951576 |
| **72178253** | Dollar | Policy1 | Policy 1 for CASH payments | 2020-04-02 | 1099.00 | CASH | 81919972 |
| **74877009** | Dollar | Policy2 | Policy 2 for LOAN payments | 2020-05-21 | 1200.00 | LOAN | 68464201 |
| **84515017** | Dollar | Policy4 | Policy 4 for CREDIT CARD payments | 2020-05-12 | 999.99 | CREDIT CARD | 81565234 |

1. **LOAN**

|  |  |  |  |
| --- | --- | --- | --- |
| **Loan\_Nbr** | **Cust\_ID** | **Interest\_Rate** | **Monthly\_Payment** |
| **LOAN5322** | 73587399 | 2 | 260 |
| **LOAN6373** | 68464201 | 2 | 224 |
| **LOAN7456** | 20397649 | 2 | 317 |
| **LOAN8643** | 28034052 | 2 | 330 |

1. **TRIP\_SCHEDULE**

|  |  |  |
| --- | --- | --- |
| **Trip\_Number** | **Trip\_Name** | **Duration** |
| **PKNB0001** | Adventurous Trip | 12 |
| **PKNB0002** | Wildlife Trip | 8 |
| **PKNB0003** | Medical Trip | 21 |
| **PKNB0004** | Pilgrimage Trip | 32 |
| **PKNB0005** | Eco Trip | 7 |
| **PKNB0006** | Cultural Trip | 6 |
| **PKNB0007** | Cruise Trip | 43 |
| **PKNB0008** | Wellness Trip | 6 |
| **PKNB0009** | Family Trip | 12 |
| **PKNB0010** | Honeymoon Trip | 27 |

1. **MEDICAL\_RECORD**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MR\_ID** | **CID** | **Blood\_Type** | **PCR\_Test** | **Emergency\_Number** |
| **MR-00001** | 16951576 | A+ | 0 | +60-79-784-1123 |
| **MR-00002** | 20397649 | B+ | 1 | +46-99-467-0192 |
| **MR-00003** | 20725761 | A+ | 1 | +37-68-656-3312 |
| **MR-00004** | 28034052 | O+ | 1 | +1-704-467-0192 |
| **MR-00005** | 30675402 | A+ | 1 | +53-10-616-8112 |
| **MR-00006** | 60484923 | AB+ | 0 | +50-863-333-11 |
| **MR-00007** | 68464201 | AB- | 1 | +56-79-195-1485 |
| **MR-00008** | 70864186 | A- | 1 | +3-701-091-6868 |
| **MR-00009** | 73587399 | B+ | 0 | +4-791-14-11024 |
| **MR-00010** | 81919972 | B- | 0 | +1-605-6436-187 |

1. **RELATED\_PEEP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PEEP\_ID** | **CID** | **Email** | **Phone\_nb** | **Relation** | **MM** | **YYYY** | **DD** |
| **01** | 16951576 | [James@gmail.com](mailto:James@gmail.com) | +60-79-784-1123 | Sister | 5 | 1995 | 25 |
| **01** | 68464201 | [Jameele@gmail.com](mailto:Jameele@gmail.com) | +974-70-051-681 | Grandmother | 6 | 1980 | 12 |
| **01** | 73587399 | [Mike@gmail.com](mailto:Mike@gmail.com) | +4-791-14-11024 | Brother | 1 | 1965 | 12 |
| **01** | 81919972 | [Jackline@gmail.com](mailto:Jackline@gmail.com) | +1-605-6436-187 | Friend | 7 | 2001 | 1 |
| **02** | 16951576 | [Rose@gmail.com](mailto:Rose@gmail.com) | NULL | Mother | 11 | 2008 | 15 |
| **02** | 68464201 | [Charles@gmail.com](mailto:Charles@gmail.com) | +56-79-195-1485 | Brother | 4 | 1975 | 7 |
| **02** | 73587399 | [Alfred@gmail.com](mailto:Alfred@gmail.com) | +4-712-5425-124 | Brother | 12 | 1970 | 30 |
| **02** | 81919972 | [Lea@gmail.com](mailto:Lea@gmail.com) | +1-309-5458-125 | Friend | 12 | 2000 | 21 |
| **03** | 16951576 | [Ebra@gmail.com](mailto:Ebra@gmail.com) | NULL | Mother | 10 | 2004 | 23 |
| **03** | 68464201 | [Bady@gmail.com](mailto:Bady@gmail.com) | +974-70-859-021 | Father | 1 | 1991 | 2 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PEEP\_ID** | **First**  **Name** | **Middle**  **Name** | **LastName** | **Country** | **City** | **Building** | **Street** |
| **01** | James | Matfin | Sacco | Indonesia | Monte Agudo | XYZ Bldg | 8 |
| **01** | Jameele | Mella | Jedra | Qatar | Madīnat ash Shamāl | Salman Bldg | 481 |
| **01** | Mike | Coole | Jedrzaszkiewicz | Russia | Red | RD bldg. | 1 |
| **01** | Jackline | Main | Sercose | United States | NY | wkwk Bldg | 54317 |
| **02** | Rose | Main | Bert | Indonesia | Timurjaya | wkwk bldg. | 54317 |
| **02** | Charles | Mhelo | Latham | Qatar | Madīnat ash Shamāl | Bright Tower | 13 |
| **02** | Alfred | Coole | Jedrzaszkiewicz | NULL | NULL | NULL | NULL |
| **02** | Lea | Hellcat | Pepeq | United States | NY | EST BLDG04 | 283 |
| **03** | Ebra | Main | Bert | Indonesia | Timurjaya | wkwk bldg. | 54317 |
| **03** | Bady | Mhelo | Latham | Qatar | Madīnat ash Shamāl | Salman Bldg | 481 |

1. **HAS\_A2**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMER\_ID** | **CARD\_Nb** | **First**  **Name** | **Middle**  **Name** | **Last**  **Name** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |
| **16951576** | 54786416 | Del | Matfin | Sacco | Indonesia | Timurjaya | wkwk bldg | 54317 | 8 | 12 | 1993 |
| **20397649** | 26766358 | Renee | Honywill | Bert | Malaysia | Kuching | Tower Bldg | 58 | 21 | 1 | 2000 |
| **20725761** | 55002229 | Silvie | Hellcat | Peplow | Estonia | Tartu | EST BLDG04 | 283 | 7 | 12 | 1979 |
| **28034052** | 8514744 | Tamarra | Scamal | Antrobus | Canada | Beloeil | Beloeil Bldg | 25 | 15 | 1 | 2002 |
| **30675402** | 43394385 | Clareta | Spare | Romney | Cuba | Remedios | Kamel Bldg | 2239 | 30 | 12 | 1989 |
| **68464201** | 84927676 | Catlee | Cotterell | Latham | Qatar | Madīnat ash Shamāl | Salman Bldg | 481 | 12 | 3 | 1969 |
| **70864186** | 66461696 | Carree | Stammler | Jeggo | Portugal | Monte Agudo | XYZ Bldg | 8 | 4 | 6 | 1999 |
| **73587399** | 13319670 | Noelani | Coole | Jedrzaszkiewicz | Russia | Sobinka | Basel Bldg | 68 | 19 | 8 | 1986 |
| **81565234** | 66997013 | Ikey | Popplewell | Lempenny | Chile | Talcahuano | Hanoi Tower | 3 | 29 | 8 | 1993 |
| **81919972** | 86412122 | Devi | Grigoire | Duerden | United States | Lancaster | Lancaster Bldg | 1 | 19 | 12 | 2001 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMER\_ID** | **Accompanying\_**  **people\_nbr** | **Stranger** | **Butterfly** | **TrueFriend** | **Barnacle** | **Nb\_of\_**  **previous\_**  **trips** | **Loyalty\_point** | **Money\_spent** |
| **16951576** | 3 | 0 | 0 | 1 | 0 | 1 | 8000 | 10000 |
| **20397649** | 0 | 1 | 0 | 0 | 0 | 2 | 90 | 1000 |
| **20725761** | 0 | 0 | 1 | 0 | 0 | 4 | 1008 | 3055 |
| **28034052** | 0 | 0 | 0 | 0 | 1 | 8 | 2500 | 6000 |
| **30675402** | 0 | 0 | 1 | 0 | 0 | 2 | 301 | 1099 |
| **68464201** | 3 | 0 | 0 | 0 | 1 | 3 | 3000 | 4999 |
| **70864186** | 0 | 1 | 0 | 0 | 0 | 1 | 600 | 600 |
| **73587399** | 2 | 0 | 0 | 1 | 0 | 5 | 2500 | 3400 |
| **81565234** | 0 | 0 | 1 | 0 | 0 | 2 | 2666 | 2666 |
| **81919972** | 2 | 1 | 0 | 0 | 0 | 1 | 799 | 799 |

1. **FILLS**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Customer\_ID** | **SID** | **First**  **Name** | **Middle**  **Name** | **LastName** | **Country** | **City** | **Building** | **Street** | **DD** | **MM** | **YYYY** |
| **20397649** | SUR-4123 | Renee | Honywill | Bert | Malaysia | Kuching | Tower Bldg | 58 | 21 | 1 | 2000 |
| **20725761** | SUR-0111 | Silvie | Hellcat | Peplow | Estonia | Tartu | EST BLDG04 | 283 | 7 | 12 | 1979 |
| **28034052** | SUR-3189 | Tamarra | Scamal | Antrobus | Canada | Beloeil | Beloeil Bldg | 25 | 15 | 1 | 2002 |
| **30675402** | SUR-1322 | Clareta | Spare | Romney | Cuba | Remedios | Kamel Bldg | 2239 | 30 | 12 | 1989 |
| **60484923** | SUR-0108 | Nedda | Bewick | Pattini | Nigeria | Uba | Osas bldg | 933 | 13 | 2 | 1989 |
| **63276737** | SUR-7623 | Biddie | McLaughlan | Caramuscia | Sweden | Umeå | Sky bldg | 11 | 29 | 4 | 1970 |
| **68464201** | SUR-0010 | Catlee | Cotterell | Latham | Qatar | Madīnat ash Shamāl | Salman Bldg | 481 | 12 | 3 | 1969 |
| **70864186** | SUR-9088 | Carree | Stammler | Jeggo | Portugal | Monte Agudo | XYZ Bldg | 8 | 4 | 6 | 1999 |
| **81565234** | SUR-1321 | Ikey | Popplewell | Lempenny | Chile | Talcahuano | Hanoi Tower | 3 | 29 | 8 | 1993 |
| **81919972** | SUR-1455 | Devi | Grigoire | Duerden | United States | Lancaster | Lancaster bldg | 1 | 19 | 12 | 2001 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Customer\_ID** | **Accompanying\_**  **people\_nbr** | **Stranger** | **Butterfly** | **TrueFriend** | **Barnacle** | **Rating** | **Feedback** |
| **20397649** | 0 | 1 | 0 | 0 | 0 | 4 | Amazing experience |
| **20725761** | 0 | 0 | 1 | 0 | 0 | 5 | NULL |
| **28034052** | 0 | 0 | 0 | 0 | 1 | 4 | All the activities we did were so entertaining |
| **30675402** | 0 | 0 | 1 | 0 | 0 | 5 | Best part of the trip is making new memories and new friends |
| **60484923** | 0 | 0 | 0 | 0 | 1 | 3 | The trip was too short, we needed more time to explore the city |
| **63276737** | 0 | 0 | 1 | 0 | 0 | 2 | The food served at the hotel was not good at all |
| **68464201** | 3 | 0 | 0 | 0 | 1 | 5 | Had so much fun discovering different parts of the city |
| **70864186** | 0 | 1 | 0 | 0 | 0 | 5 | Learned a lot of interesting information from the museums we visited |
| **81565234** | 0 | 0 | 1 | 0 | 0 | 4 | NULL |
| **81919972** | 2 | 1 | 0 | 0 | 0 | 3 | Enjoyed my time with friends but the hotel staff were rude |

1. **HAS A5**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ticket\_nb** | **Peep\_id** | **CID** | **Email** | **Phone\_nb** | **Relation** | **YYYY** | **MM** | **DD** |
| **01066721** | 03 | 68464201 | [Bady@gmail.com](mailto:Bady@gmail.com) | +974-70-859-021 | Father | 1991 | 1 | 2 |
| **10946123** | 02 | 68464201 | [Charles@gmail.com](mailto:Charles@gmail.com) | +56-79-195-1485 | Brother | 1975 | 4 | 7 |
| **10981443** | 01 | 81919972 | [Jackline@gmail.com](mailto:Jackline@gmail.com) | +1-605-6436-187 | Friend | 2001 | 7 | 1 |
| **22109652** | 01 | 68464201 | [Jameele@gmail.com](mailto:Jameele@gmail.com) | +974-70-051-681 | Grandmother | 1980 | 6 | 12 |
| **51667812** | 01 | 73587399 | [Mike@gmail.com](mailto:Mike@gmail.com) | +4-791-14-11024 | Brother | 1965 | 1 | 12 |
| **51667813** | 02 | 73587399 | [Alfred@gmail.com](mailto:Alfred@gmail.com) | +4-712-5425-124 | Brother | 1970 | 12 | 30 |
| **79668108** | 01 | 16951576 | [James@gmail.com](mailto:James@gmail.com) | +60-79-784-1123 | Sister | 1995 | 5 | 25 |
| **79668111** | 03 | 16951576 | [Ebra@gmail.com](mailto:Ebra@gmail.com) | NULL | Mother | 2004 | 10 | 23 |
| **79668133** | 02 | 16951576 | [Rose@gmail.com](mailto:Rose@gmail.com) | NULL | Mother | 2008 | 11 | 15 |
| **81301277** | 02 | 81919972 | [Lea@gmail.com](mailto:Lea@gmail.com) | +1-309-5458-125 | Friend | 2000 | 12 | 21 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ticket\_nb** | **First**  **Name** | **Middle**  **Name** | **Last**  **Name** | **Country** | **City** | **Building** | **Street** | **Arrival**  **\_time** | **Departure**  **\_time** | **Airline**  **\_Name** | **Bill** |
| **01066721** | Bady | Mhelo | Latham | Qatar | Madīnat ash Shamāl | Salman   Bldg | 481 | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 | Qatar | 1099 |
| **10946123** | Charles | Mhelo | Latham | Qatar | Madīnat ash Shamāl | Bright Tower | 13 | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 | Qatar | 1099 |
| **10981443** | Jackline | Main | Sercose | United States | NY | Wkwk  Bldg | 54317 | 2020-07-18 09:00:00 | 2020-07-29 14:00:00 | Emirates | 699 |
| **22109652** | Jameele | Mella | Jedra | Qatar | Madīnat ash Shamāl | Salman  Bldg | 481 | 2020-06-11 05:00:00 | 2020-06-23 18:00:00 | Qatar | 1099 |
| **51667812** | Mike | Coole | Jedrzaszkiewicz | Russia | Red | RD  bldg. | 1 | 2020-08-17 22:00:00 | 2020-08-23 11:00:00 | Amer Airwaves | 669 |
| **51667813** | Alfred | Coole | Jedrzaszkiewicz | NULL | NULL | NULL | NULL | 2020-08-17 22:00:00 | 2020-08-23 11:00:00 | Amer Airwaves | 669 |
| **79668108** | James | Matfin | Sacco | Indonesia | Monte Agudo | XYZ  Bldg | 8 | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 | EasyJet | 529 |
| **79668111** | Ebra | Main | Bert | Indonesia | Timurjaya | wkwk bldg. | 54317 | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 | EasyJet | 529 |
| **79668133** | Rose | Main | Bert | Indonesia | Timurjaya | Wkwk  bldg. | 54317 | 2020-08-02 21:00:00 | 2020-08-06 06:00:00 | EasyJet | 529 |
| **81301277** | Lea | Hellcat | Pepeq | United States | NY | EST  BLDG04 | 283 | 2020-07-18 09:00:00 | 2020-07-29 14:00:00 | Emirates | 699 |

1. **BUYS**

|  |  |
| --- | --- |
| **Customer\_id** | **Trip\_nbr** |
| **68464201** | PKNB0001 |
| **73587399** | PKNB0002 |
| **81565234** | PKNB0003 |
| **28034052** | PKNB0004 |
| **30675402** | PKNB0005 |
| **20725761** | PKNB0006 |
| **20397649** | PKNB0007 |
| **60484923** | PKNB0008 |
| **63276737** | PKNB0008 |
| **70864186** | PKNB0009 |
| **16951576** | PKNB0010 |
| **81919972** | PKNB0011 |

1. **RESERVES**

|  |  |
| --- | --- |
| **EmpNSSF** | **ResID** |
| **EMP-0008** | RES-0001 |
| **EMP-0008** | RES-0002 |
| **EMP-0008** | RES-0003 |
| **EMP-0007** | RES-0004 |
| **EMP-0007** | RES-0005 |
| **EMP-0010** | RES-0006 |
| **EMP-0010** | RES-0007 |
| **EMP-0013** | RES-0008 |
| **EMP-0013** | RES-0009 |
| **EMP-0007** | RES-0010 |
| **EMP-0008** | RES-0010 |
| **EMP-0008** | RES-0011 |
| **EMP-0008** | RES-0012 |

1. **CUST\_EMAIL**

|  |  |
| --- | --- |
| **C\_Email** | **C\_ID** |
| [**carree.jeggo@gmail.com**](mailto:carree.jeggo@gmail.com) | 20397649 |
| [**carree@gmail.com**](mailto:carree@gmail.com) | 20397649 |
| [**catlee.letham@gmail.com**](mailto:catlee.letham@gmail.com) | 20397649 |
| [**del.sacco@hotmail.com**](mailto:del.sacco@hotmail.com) | 20397649 |
| [**delsacco0o0@gmail.com**](mailto:delsacco0o0@gmail.com) | 20397649 |
| [**devi.duerden@hotmail.com**](mailto:devi.duerden@hotmail.com) | 20397649 |
| [**ikey.lempenny@hotmail.com**](mailto:ikey.lempenny@hotmail.com) | 20397649 |
| [**noelani.jedrzaszkiewicz@gmail.com**](mailto:noelani.jedrzaszkiewicz@gmail.com) | 20397649 |
| [**renee\_H.bert@gmail.com**](mailto:renee_H.bert@gmail.com) | 20397649 |
| [**renee.bert@hotmail.com**](mailto:renee.bert@hotmail.com) | 20397649 |
| [**selvie.peplow@hotmail.com**](mailto:selvie.peplow@hotmail.com) | 20397649 |
| [**tamarra.antrobus@hotmail.com**](mailto:tamarra.antrobus@hotmail.com) | 20397649 |
| [**clareta.spare@outlook.com**](mailto:clareta.spare@outlook.com) | 30675402 |

1. **PHONE\_NBR**

|  |  |
| --- | --- |
| **C\_Phone** | **C\_ID** |
| **+6-202-1115-193** | 16951576 |
| **+60-70-712-2334** | 20397649 |
| **+60-72-809-1004** | 20397649 |
| **+37-270-7755-11** | 20725761 |
| **+1-726-9231-015** | 28034052 |
| **+53-766-4652-21** | 30675402 |
| **+50-701-425-36** | 60484923 |
| **+41-67-6824-931** | 63276737 |
| **+9-73-0813-1029** | 68464201 |
| **+9-74-0333-3222** | 68464201 |
| **+3-510-321-5568** | 70864186 |
| **+4-102-3698-574** | 73587399 |
| **+4-914-3138-373** | 73587399 |
| **+56-01-454-1588** | 81565234 |
| **+56-11-201-1108** | 81565234 |
| **+1-7058-963-112** | 81919972 |

1. **MR\_MEDICINE**

|  |  |  |
| --- | --- | --- |
| **MR\_MEDICINE** | **Med\_Id** | **Cust\_Id** |
| **No medicine** | MR-00001 | 16951576 |
| **Anticoagulants** | MR-00002 | 20397649 |
| **Diuretics** | MR-00003 | 20725761 |
| **Pain Killers** | MR-00004 | 28034052 |
| **Glucophage** | MR-00005 | 30675402 |
| **entecavir** | MR-00006 | 60484923 |
| **Metformin** | MR-00006 | 60484923 |
| **No  medicine** | MR-00007 | 68464201 |
| **No  medicine** | MR-00008 | 70864186 |
| **Glumetza** | MR-00009 | 73587399 |
| **Troptans** | MR-00009 | 73587399 |
| **Angiotensin** | MR-00010 | 81919972 |

1. **MED\_ALLERGY**

|  |  |  |
| --- | --- | --- |
| **Mr\_Allergy** | **Med\_Id** | **Cust\_Id** |
| **No  Allergies** | MR-00001 | 16951576 |
| **Peanuts** | MR-00002 | 20397649 |
| **Eggs** | MR-00003 | 20725761 |
| **No  Allergies** | MR-00004 | 28034052 |
| **Milk** | MR-00005 | 30675402 |
| **Milk** | MR-00006 | 60484923 |
| **Pollen** | MR-00006 | 60484923 |
| **No  Allergies** | MR-00007 | 68464201 |
| **No  Allergies** | MR-00008 | 70864186 |
| **Peanuts** | MR-00009 | 73587399 |
| **Wheat** | MR-00009 | 73587399 |
| **No  Allergies** | MR-00010 | 81919972 |

1. **MED\_INJURY**

|  |  |  |
| --- | --- | --- |
| **MR\_Injury** | **Med\_Id** | **Cust\_Id** |
| **Broken Bone** | MR-00001 | 16951576 |
| **Sprain** | MR-00001 | 16951576 |
| **Burns** | MR-00002 | 20397649 |
| **Sprain** | MR-00002 | 20397649 |
| **No Injury** | MR-00003 | 20725761 |
| **No Injury** | MR-00004 | 28034052 |
| **No Injury** | MR-00005 | 30675402 |
| **Sprain** | MR-00006 | 60484923 |
| **No injury** | MR-00007 | 68464201 |
| **Joint Dislocation** | MR-00008 | 70864186 |
| **No Injury** | MR-00009 | 73587399 |
| **No Injury** | MR-00010 | 81919972 |

1. **MED\_CHRONIC**

|  |  |  |
| --- | --- | --- |
| **MR\_Chronic** | **Med\_Id** | **Cust\_Id** |
| **NONE** | MR-00001 | 16951576 |
| **Heart Disease** | MR-00002 | 20397649 |
| **High Blood Pressure** | MR-00003 | 20725761 |
| **Arthritis** | MR-00004 | 28034052 |
| **Diabetes** | MR-00005 | 30675402 |
| **Diabetes** | MR-00006 | 60484923 |
| **Hepatitis** | MR-00006 | 60484923 |
| **NONE** | MR-00007 | 68464201 |
| **NONE** | MR-00008 | 70864186 |
| **Diabetes** | MR-00009 | 73587399 |
| **Migraine** | MR-00009 | 73587399 |
| **Blood Pressure** | MR-00010 | 81919972 |

1. **TRIP\_ACTIVITY**

|  |  |  |
| --- | --- | --- |
| **TS\_Activity** | **TS\_Name** | **TS\_Number** |
| **Biking** | Adventurous Trip | PKNB0001 |
| **Camping** | Adventurous Trip | PKNB0001 |
| **Hiking** | Adventurous Trip | PKNB0001 |
| **Hunting** | Wildlife Trip | PKNB0002 |
| **Safari Tour** | Wildlife Trip | PKNB0002 |
| **Conference** | Medical Trip | PKNB0003 |
| **Visiting a temple** | Pilgrimage Trip | PKNB0004 |
| **Fishing** | Eco Trip | PKNB0005 |
| **Kayaking tour** | Eco Trip | PKNB0005 |
| **Festival** | Cultural Trip | PKNB0006 |
| **Museums** | Cultural Trip | PKNB0006 |
| **Sea** | Cruise Trip | PKNB0007 |
| **Nature Act** | Wellness Trip | PKNB0008 |
| **Hot Air Balloon** | Family Trip | PKNB0009 |
| **Zoo** | Family Trip | PKNB0009 |
| **Party** | Honeymoon Trip | PKNB0010 |

1. *SQL QUERY TRANSACTIONS:*

To test our FAKHER Database, we present to you the following 10 SQL Transactions.

* + - 1. **SQL Transaction 1**

**Description:** Extract all Accommodation’s price that are in ‘France’.

**Code:**

1. SELECT Price
2. FROM ACCOMMODATION
3. WHERE Dest\_ID IN
4. (SELECT Id FROM DESTINATION WHERE Country='France');

**Result:**

|  |
| --- |
| **Price** |
| 1009.50 |
| 709.50 |
| 855.00 |
| 499.90 |

* + - 1. **SQL Transaction 2**

**Description:** Update and retrieve the amount paid per customer including discounts (based on the number of previous trips and money spend)

(10% discount to customers who have spent more than $4000 & gone on atleast 6 trips... 7% discount to customers who spent atleast $2000 but no more than $4000 & have gone on atleat 3 trips but no more than 6... 4% discount to customers who have spent atleast $1000 but no more than 2000 & have gone on 1 or 2 trips)

**Code:**

**UPDATE** CONTRACT

**SET** Amount\_paid = (

**SELECT** Nb\_of\_previous\_trips, Money\_spent

CASE WHEN Nb\_of\_previous\_trips >=6 **AND** Money\_spent >=4000 THEN Amount\_paid\*0.9

WHEN Nb\_of\_previous\_trips <6 **AND** Nb\_of\_previous\_trips>=3 **AND** Money\_spent <4000 **AND** Money\_spent >=2000 THEN Amount\_paid\*0.93

WHEN Nb\_of\_previous\_trips <3 **AND** Nb\_of\_previous\_trips>=2 **AND** Money\_spent <2000 **AND** Money\_spent >=1000 THEN Amount\_paid\*0.96

END

**FROM** HAS\_A2

**ORDER** **BY** Nb\_of\_previous\_trips

);

**Result:**

* + - 1. **SQL Transaction 3**

**Description:** Retrieve the name of the Restaurants and Hotels ranked within the 1st hundred and the country and city they are located in.

**Code:**

SELECT D.Country, S.City, S.world\_rank

SELECT S.Name,D.Country, S.City, S.world\_rank

FROM SITE AS S, DESTINATION AS D

WHERE S.DID=D.Id AND (S.Category = 'Restaurant' OR S.Category = 'Hotel') AND S.world\_rank<=100

**Result:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Country** | **City** | **world\_rank** |
| **Four Season Hotel** | Germany | Berlin | 34 |
| **Mirazur** | France | Menton | 1 |

* + - 1. **SQL Transaction 4**

**Description:** Retrieve the total Expenses for each department

**Code:**

SELECT Name,(Salary+Partner\_cost) As Total\_Cost

FROM EXPENSE,DEPARTMENT

where Expense\_ID=ID;

**Result:**

|  |  |
| --- | --- |
| **Name** | **Total\_Cost** |
| **Marketing** | 166332 |
| **Package Design** | 304000 |
| **International Communication** | 597000 |
| **Management** | 43000 |
| **Finance** | 153000 |
| **IT** | 31000 |
| **Human Resource** | 21000 |
| **Client Service** | 67000 |

* + - 1. **SQL Transaction 5**

**Description:** Retrieve the location, time reserved, description and start and end date of a trip reserved, having a cost of at least 1000.

**Code:**

**SELECT** R.Location, R.Time

**FROM** (RESERVATION **AS** R)

**WHERE** R.Site\_Name = S.Name (

**SELECT** P.Description, P.Start.date, P.End\_date

**FROM** PACKAGE **AS** P

**WHERE** R.Trip\_Nbr=P.Trip\_nb

**HAVING** P.Cost>=1000);

**Result:**

* + - 1. **SQL Transaction 6**

**Description:** Retrieve the annual Partnership payables, excluding the NULL bills. (Divide the bill by the number of years left)

**Code:**

**SELECT** P.Bill, P.Service\_validity **AS** sv

**FROM** PARTNERSHIP **AS** P

**WHERE** P.Bill **IS** **NOT** **NULL**(

**SELECT** DATEDIFF(year, sv, GETDATE()) **AS** year\_diff , **SET** (P.Bill=P.Bill/year\_diff) **AS** Annual\_Payment);

**Result:**

* + - 1. **SQL Transaction 7**

**Description:** Retrieve the name and salary of Lebanese employees that work for client service department.

**Code:**

**SELECT** E.NSSF, E.FirstName, E.LastName, E.Salary

**FROM** EMPLOYEE E, DEPARTMENT D

**WHERE** E.NSSF=D.Manager\_NSSF **AND** E.Dep\_Nbr=Department\_NB **AND** E.Dep\_Nbr=’79463026’ **AND** E.County=’Lebanon’ ;

**Result:**

* + - 1. **SQL Transaction 8**

**Description:** Counts how many customers got a sprain injury

**Code:**

**SELECT COUNT** (\*) **AS** SprainInjury

**FROM** MED\_INJURY M, CUSTOMER C

**WHERE** C.ID=M.Cust\_Id **AND** M.MR\_INJURY=’Sprain’;

**Result:**

* + - 1. **SQL Transaction 9**

**Description:** Retrieves the names of customers who had negative reviews.

**Code:**

**SELECT** C.FirstName, C.LastName,S.Feedback

**FROM** CUSTOMER C, SURVEY S

**WHERE** C.SID=S.ID **AND** S.Rating<4;

**Result:**

* + - 1. **SQL Transaction 10**

**Description:**

**Code:**

**Result:**