

## *Phase II. Relational Schema*

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# 0. Pre-Illumination

For clearly describing the relational schema design, we separate this report into four sections. In Section 1 we modify the original EER diagram and explain what are changed, respect to our Phase I EER diagram. And then, in Section 2 we give the relational schemas converted from our Phase I EER diagram with detailed mapping step by step. Section 3 is the documentation of relational schemas. This documentation mainly describes data type and format for each attribute in each relational schema. We also explain our assumptions for the documentation in this section. Finally, a short summary is given at the end of this report.

## 1. Modified EER diagram

*Put any modification here. If you don't have any modification, just put your EER diagram here so that I can check whether your relation model is correct.*

1. We changed the State and City as the attribute of the destination.
  2. We changed the Destination Description from an attribute of the destination to a separate and marks an “owns” relationship between them.
  3. We moved some common attributes of “sight, restaurant, shops/Mall” to the entity “Destination” and set them as a union.
  4. We set the relationship between “Restaurant”, “Shops/Mall”, and “Business Partner”, as the “Associate” relationship.

5. We changed “Rating” from derived attribute to regular attribute and move to the “rates” relationship as an attribute.
6. We changed the name of the entity “Member” to “Authorized Members”.
7. We changed the name of “Destination comment” to “comment” and give it a unique ID, “comment id”.
8. We changed the relationship of privilege, to separate into different groups of members: preferred members and Regular members.
9. We changed the number of followers, the number of people followed, and the number status from derived entities to regular entities.
10. We changed the reply as the one relationship to comments, coming from the comments and back to comments.
11. We deleted the entity “Preference” and put the “like/dislike”, as an attribute to comment.
12. We changed wish destinations and visited destinations to multi-value attributes.
13. We set a relationship between the images and the destination.
14. We set a muti-value attribute of “ways of travel” to the destination.

The modified EER diagram is shown in Figure 1.

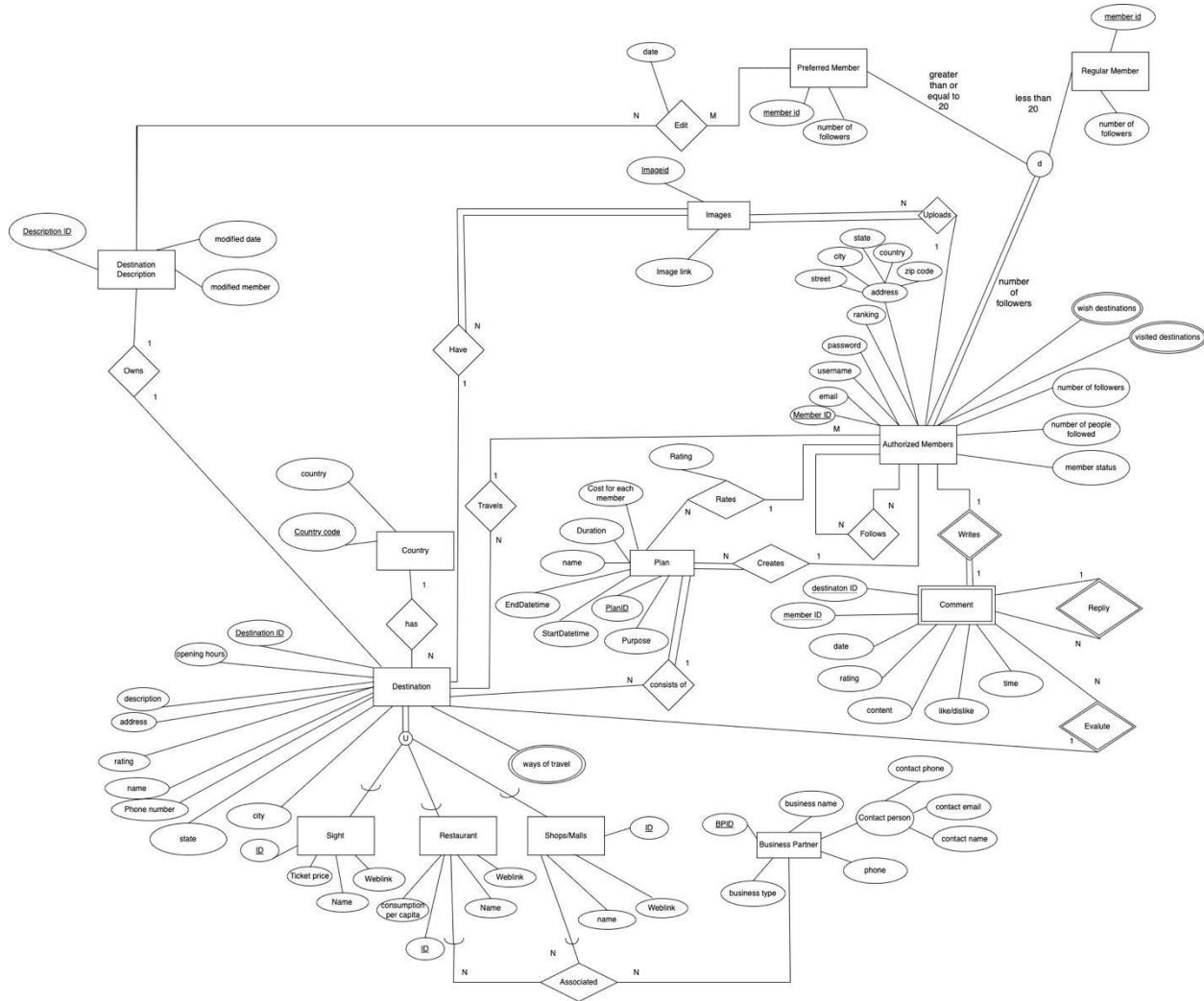


Figure 1. EER Design for Trip Share Database

## 2. Mapping Relational Schemas

We use the seven-step algorithm to convert the basic EER model constructs into relations. The following are detailed mapping processes.

### 2.1 Mapping of Regular Entity Types, Specializations.

- Since preferred members, regular members are a subgroup of members, and they don't have overlap, thus we put the “disjoint union” for them.
- The sights, restaurants, shops/malls are all attractions of destinations, and they may have overlap thus we use regular union.

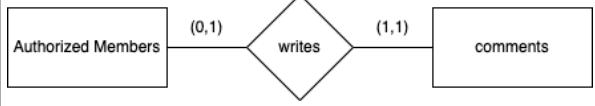
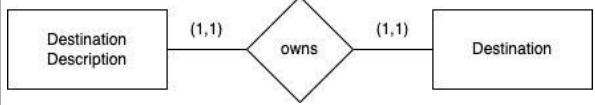
## 2.2 Mapping of Weak Entity Types

We don't have any weak entity.

## 2.3 Mapping of Binary 1:1 Relationship Types

The mapping method is exhibited in Table 1.

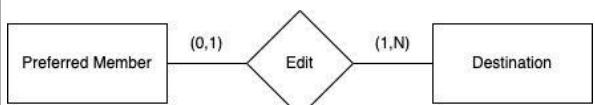
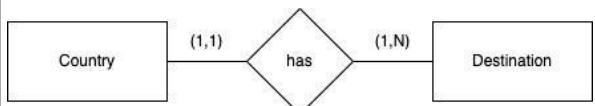
Table 1. Mapping Method to Binary 1:1 Relationship

Relation	Mapping Method
 <pre>     graph LR       A[Authorized Members] -- "(0,1)" --&gt; B{writes}       B -- "(1,1)" --&gt; C[comments]   </pre>	<p>We used a <i>foreign key approach</i> to map this relationship. Since on the comment side, the relationship is total participation, we include Member ID as a foreign key in Comments, which is the primary key of Authorized Members.</p>
 <pre>     graph LR       A[Destination Description] -- "(1,1)" --&gt; B{owns}       B -- "(1,1)" --&gt; C[Destination]   </pre>	<p>We used a <i>foreign key approach</i> to map this relationship. Both destination descriptions and destination are total participation, we include destination ID as a foreign key in destination description, which is the primary key of Authorized Members.</p>

## 2.4 Mapping of Binary 1: N Relationship Types

The mapping method is exhibited in Table 2.

Table 2. Mapping Method to Binary 1: N Relationship

Relation	Mapping Method
 <pre>     graph LR       A[Preferred Member] -- "(0,1)" --&gt; B{Edit}       B -- "(1,N)" --&gt; C[Destination]   </pre>	<p>The <i>N-side</i> of this relationship type is Destination. Thus, we include the primary key Member ID of the relation Preferred Member as the foreign key in relation to Destination.</p>
 <pre>     graph LR       A[Country] -- "(1,1)" --&gt; B{has}       B -- "(1,N)" --&gt; C[Destination]   </pre>	<p>The <i>N-side</i> of this relationship type is Destination. Thus, we include the primary key</p>

	country ID of the relation country as the foreign key in the relation destination.
<pre>     graph LR       comment[comment] -- "(1,n)" --&gt; have{have}       have -- "(1,1)" --&gt; Destination[Destination]   </pre>	The <i>N-side</i> of this relationship type is comment. Thus, we include the primary key destination ID of the relation comment as foreign key in the relation destination.
<pre>     graph LR       members[Authorized members] -- "(1,1)" --&gt; Create{Create}       Create -- "(1,N)" --&gt; Plan[Plan]   </pre>	The <i>N-side</i> of this relationship type is the plan. Thus, we include the primary key Member ID of the relation comment as foreign key in the relation plan.

## 2.5 Mapping of Binary M: N Relationship Types

<pre>     graph LR       members[Authorized members] -- "(1,M)" --&gt; Travels{Travels}       Travels -- "(1,N)" --&gt; Destination[Destination]   </pre>	There are one-to-many members who could travel to one-to-many destinations. Thus, we include the primary key Member ID of the relation authorized members as the foreign key in relation to Destination and the primary key destination ID of the relation destination as the foreign key in relation to authorized members.
<pre>     graph LR       partner[Business Partner] -- "(1,M)" --&gt; Associated{Associated}       Associated -- "(1,N)" --&gt; restaurant[Restaurant]   </pre>	There are one-to-many business partners who could associate with one-to-many restaurants. Thus, we include the primary key BPID of the relation business partner as the

	foreign key in relation to restaurant and the primary key RID of the relation restaurant as the foreign key in relation to business partner.
<pre>     erDiagram         class BusinessPartner         class Shops         BusinessPartner }o--o{ Shops : Associated     }   </pre>	There are one-to-many business partners who could associate with one-to-many shops. Thus, we include the primary key BPID of the relation business partner as the foreign key in relation to shops and the primary key SID of the relation shops as the foreign key in relation to business partner.

## 2.6 Mapping of Multi-valued Attributes

There are three multi-valued attributes:

1. “Ways of traveling” of “destination”, we set the primary key Destination ID of the relation Destination as the foreign key in relation to Ways of traveling.
2. “Wish destinations” of “Authorized Member”, we set the primary key Member ID of the relation Authorized Member as the foreign key in relation to Wish Destination.
3. “Visited destinations” of “Authorized Member”, we set the primary key Member ID of the relation Authorized Member as the foreign key in relation to Visited Destination.

## 2.7 Mapping of N-ary Relationship Types

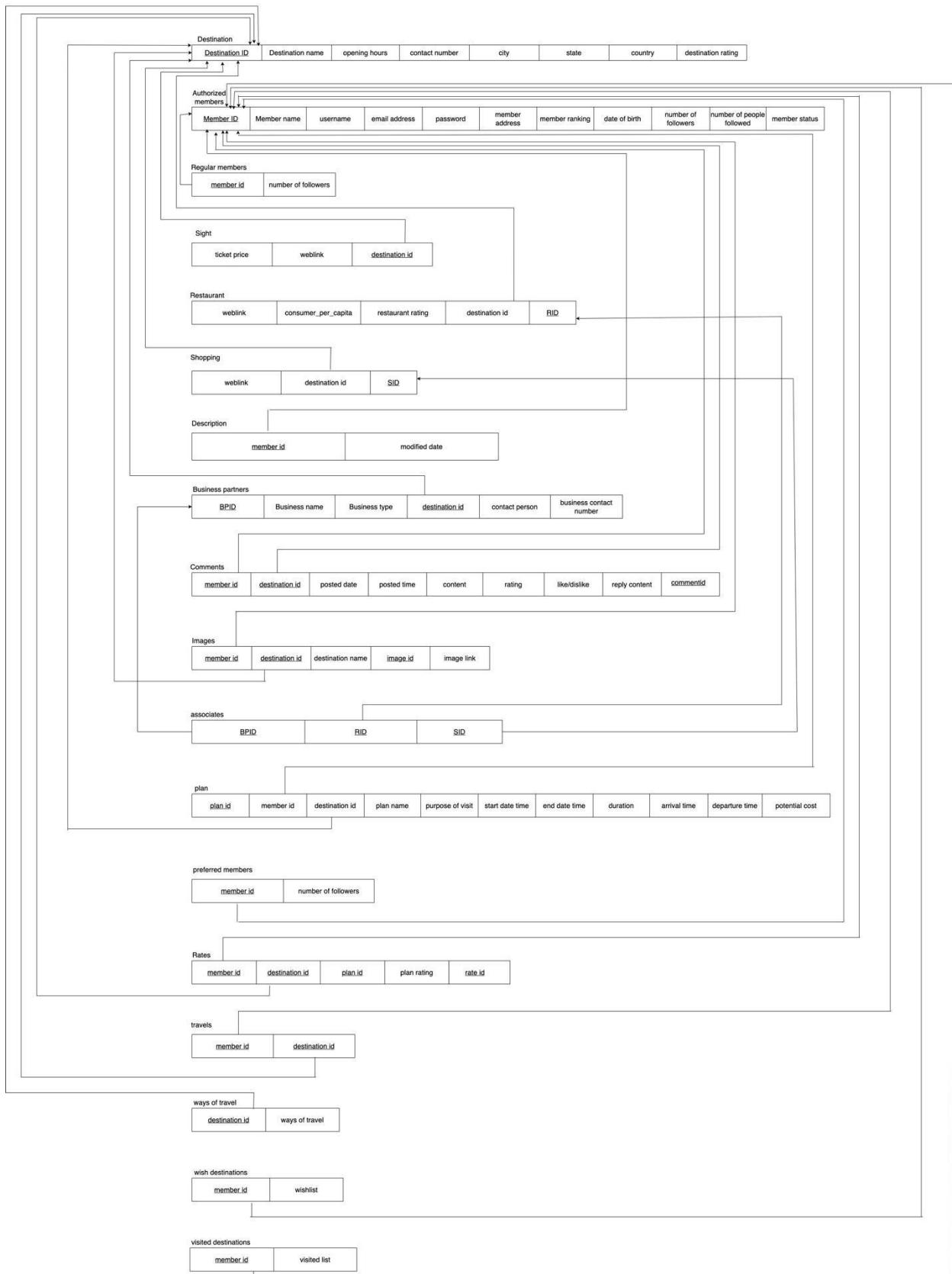
Authorized Members can upload images of the destination. We include the primary key Member ID of the relation authorized member as the foreign key in relation to image and the primary key destination ID of the relation destination as the foreign key in relation to image.

## 2.8 Final Relation Schema

After seven steps of mapping, we can get the final result of the relation schema.

Besides, we point out foreign keys by arrows from the foreign key to the original keys between two relations.

Figure 2 displays all the relational schemas converted from Phase I EER diagram.



## 3. Documentation for schemas

### 3.1 Explanation for format design

After mapping the EER diagram into relation schema that can be implemented in a relational DBMS like Oracle, we should also design the format of each attribute in every relation. Here we suppose that all the assumptions, explanations, and limitations in phase I are also suitable for the design in this phase. Thus, we shall not repeat them. In this section, we only explain our assumptions for the data types and formats in the documentation. The rules are shown as follows:

- Data format for all IDs is XXX-XX-XXXX. All IDs shall have exactly 11 characters. (Just an example)

### 3.2 Format for Every Relation

Table 3 gives data type and format for each attribute in each relational schema.

Table 3. Format for Each Attribute (example)

Relation Names	Attributes	Date Type
Hospital_Personnel	Person_ID	XXX-XX-XXXX, string = 11 chars
	First_Name	string <= 20 chars
	Middle_Name	string <= 20 chars
	Last_Name	string <= 20 chars
	Birth_Date	MM/DD/YYYY, string = 10 chars
	Phone	XXX-XXX-XXXX, string = 12 chars
	Street_No	integer
	Street_Name	string <= 20 chars
	Apt_No	integer
	City	string <= 20 chars
	State	string <= 20 chars
	Zip	String <= 10 chars

### 3.3 Implement the Database

Use SQL to create Relation Schema and constraints in Oracle.

## 4. Conclusion

In this report, we discussed and drew the relational schemas for the Database of Trip Share Management. We also give the data type and format for each attribute in each schema. Then we explain our assumptions in the documentation. This report analyzed the logical model of Database. The next step is to implement this database. In the future, we may change some design when facing practical difficulties and other requests.

# *Phase III. Implementation*

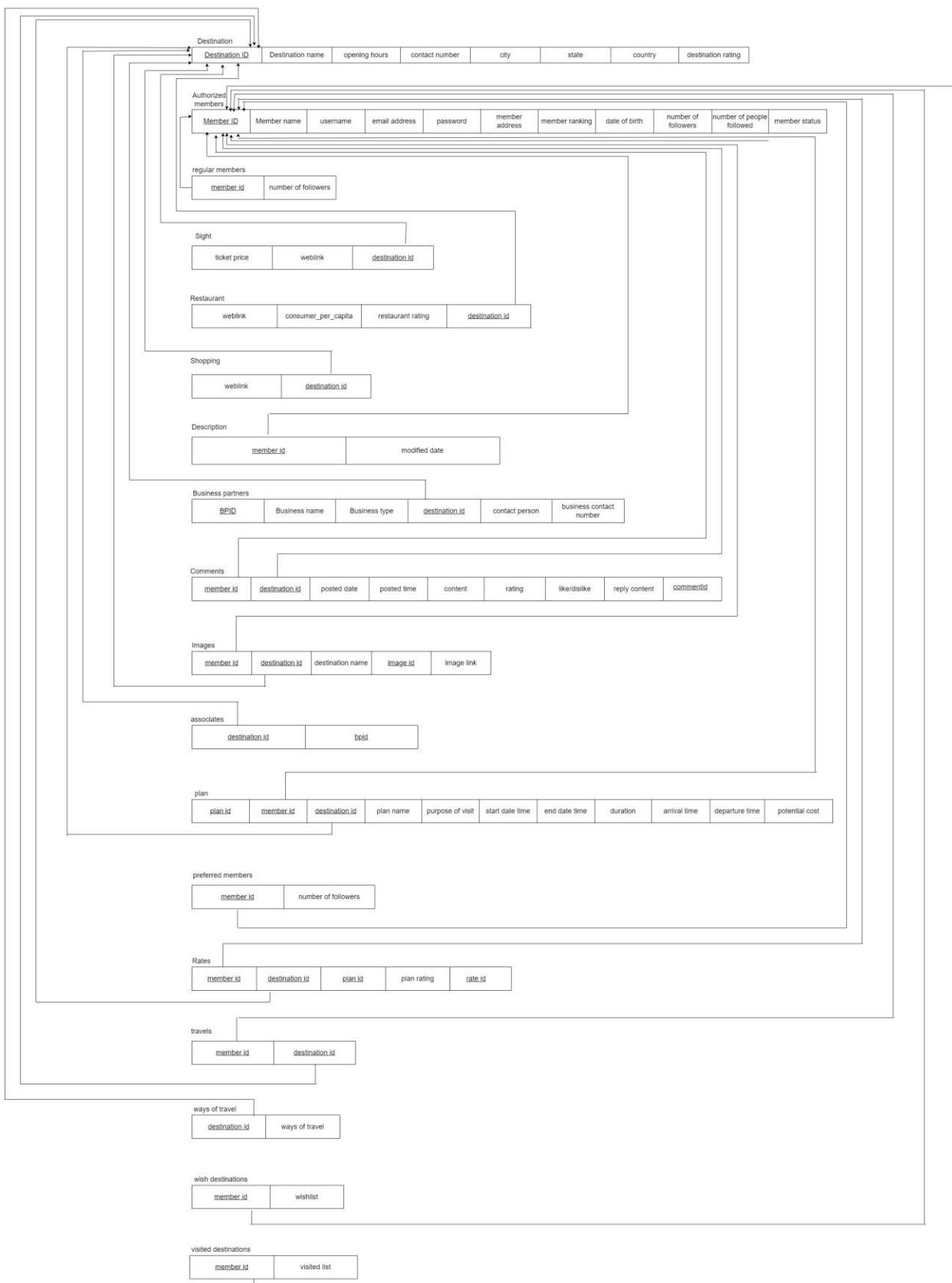
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## **0. Pre-Illumination**

For clearly describing the implementation of our database, we separate this report into three sections. In Section 1 we normalized the original relational schema into the third normal form. In Section 2 we drew a dependency diagram for each relation table one by one. In Section 3 we began our process of building a database in Oracle/MySQL using SQL statements, which contains three parts. Part one is the creation of the database, including tables, all other structures as well as data type and format, Part two is the creation of views corresponding to six distinct requirements from Question c, and Part three is the creation of Queries to satisfy 12 requirements from Question d. Finally, a short summary is given at the end of this report.

## **1. Modified Relational Schema**

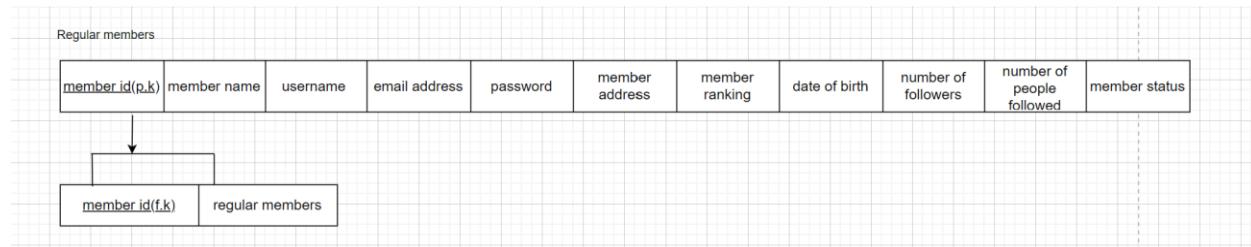
The modified relational schema is shown in Figure 1.



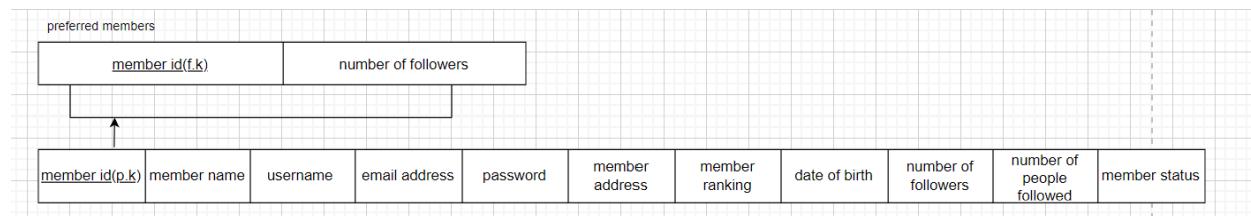
## 2. Dependency Diagram

We now draw a dependency diagram for each table from Figure 1 as follows:

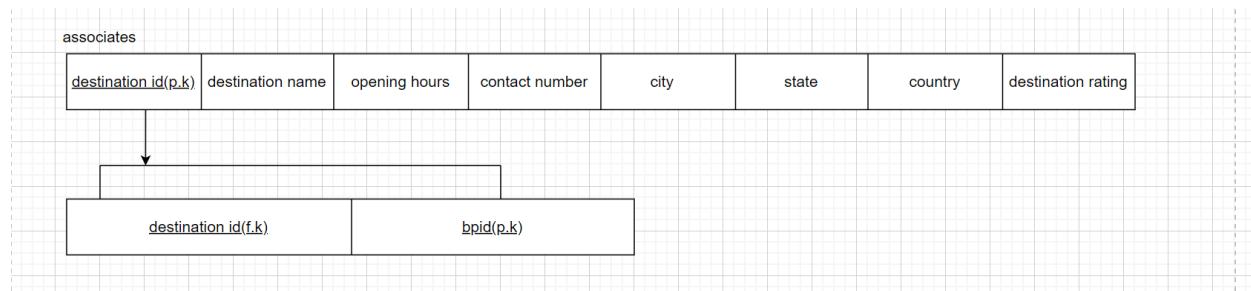
### 2.1 Regular Members



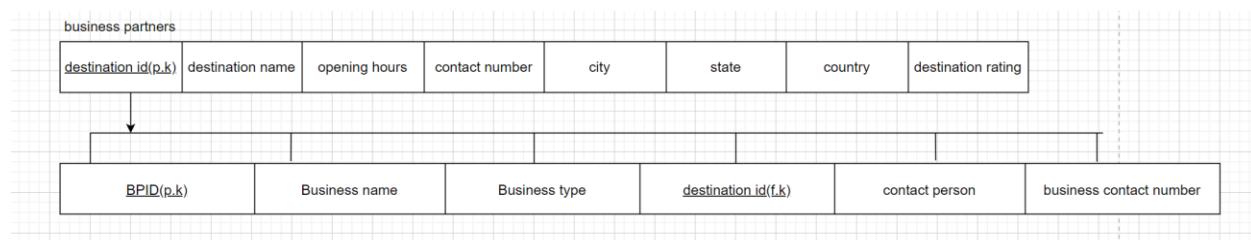
### 2.2 Preferred Members



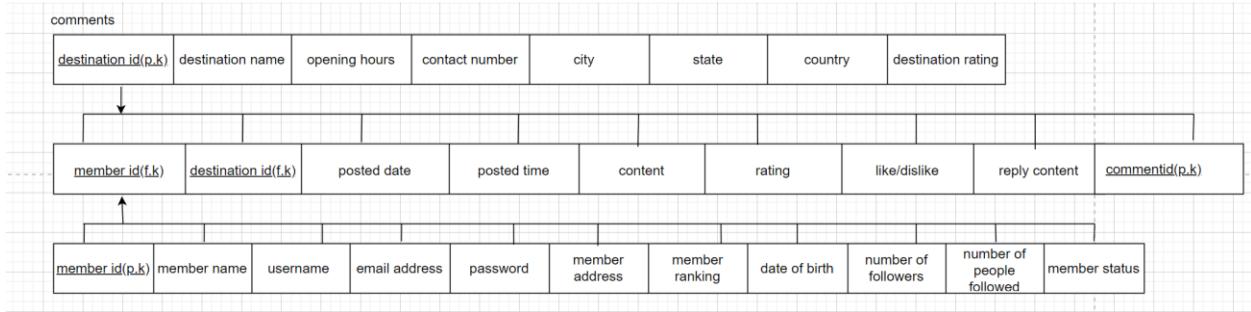
### 2.3 Associates



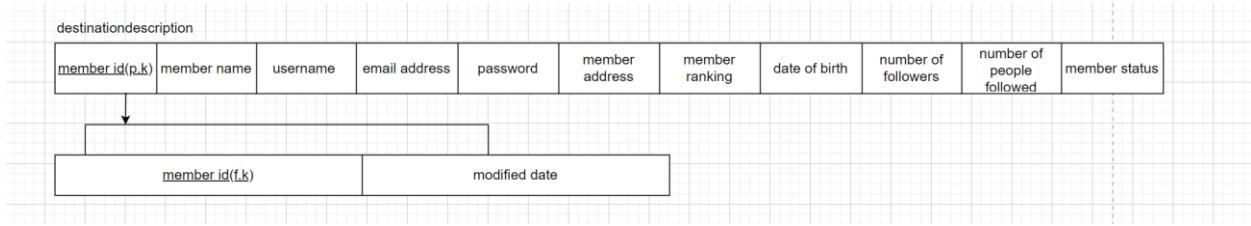
### 2.4 BusinessPartners



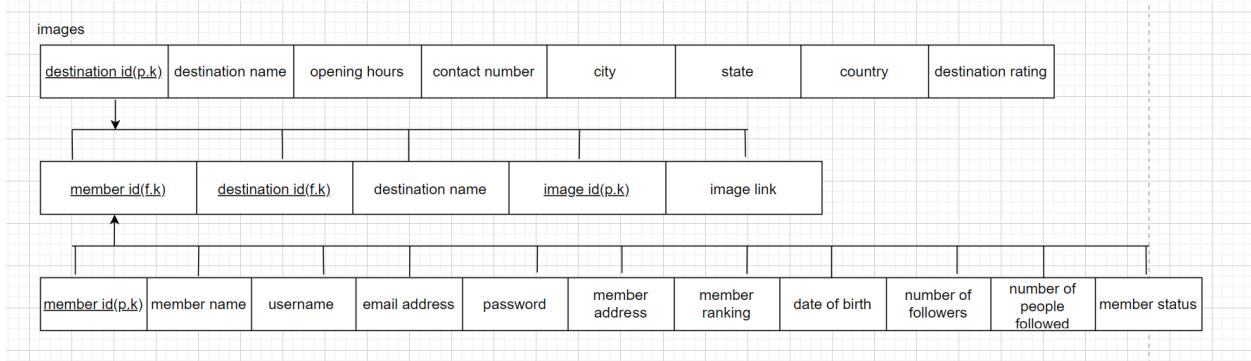
### 2.5 Comments



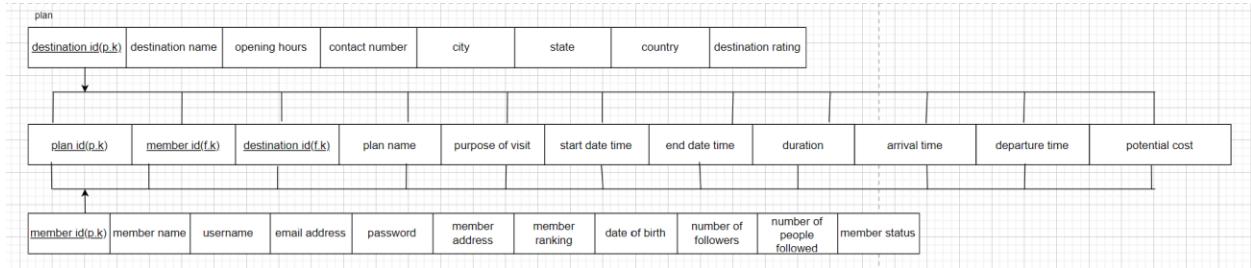
## 2.6 Destination description



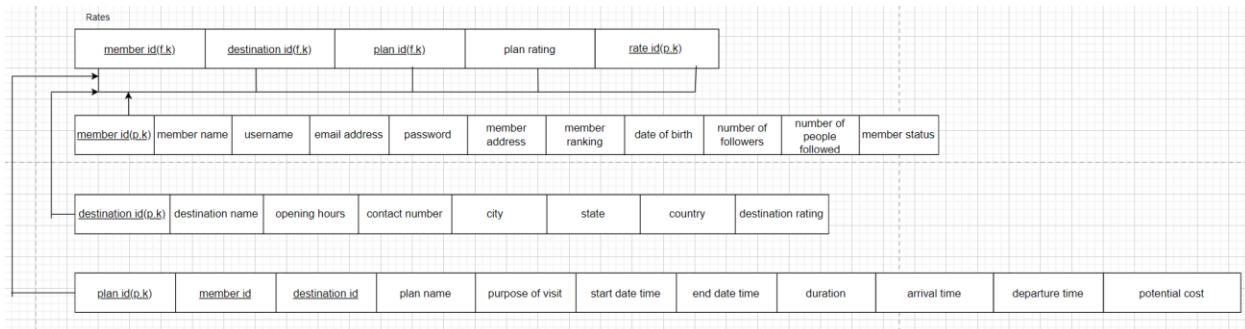
## 2.7 Images



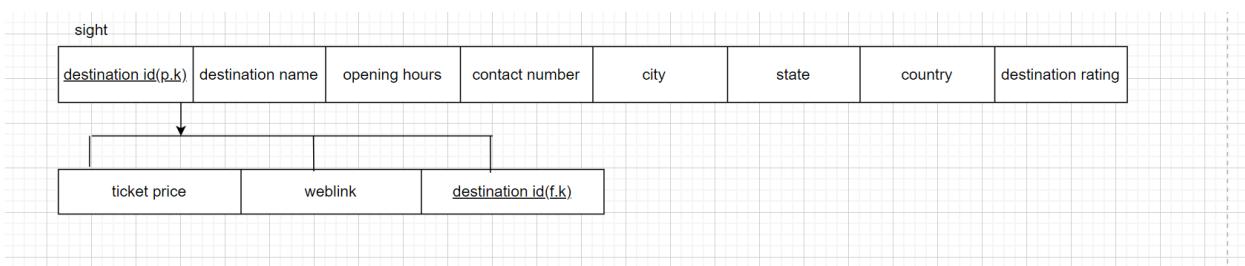
## 2.8 Plan



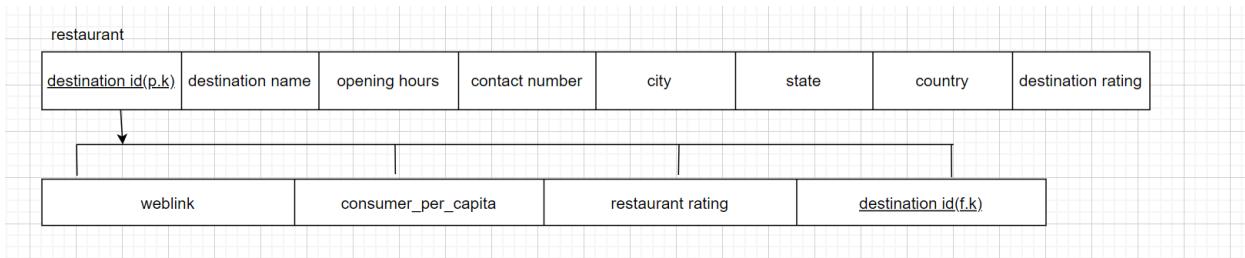
## 2.9 Rates



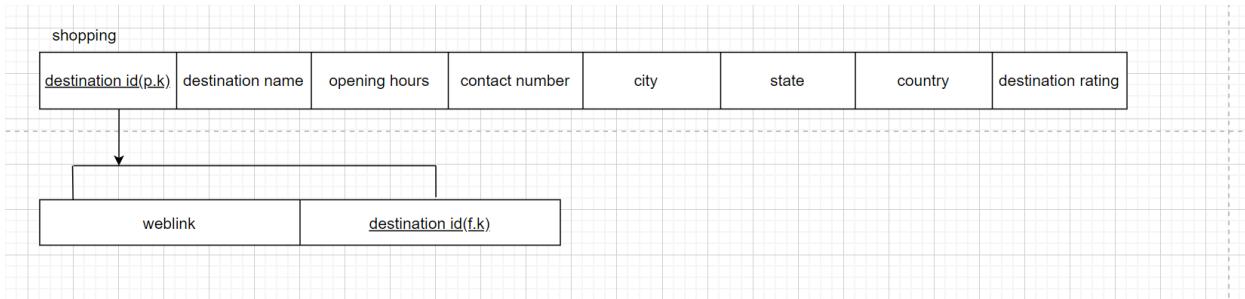
## 2.10 Sight



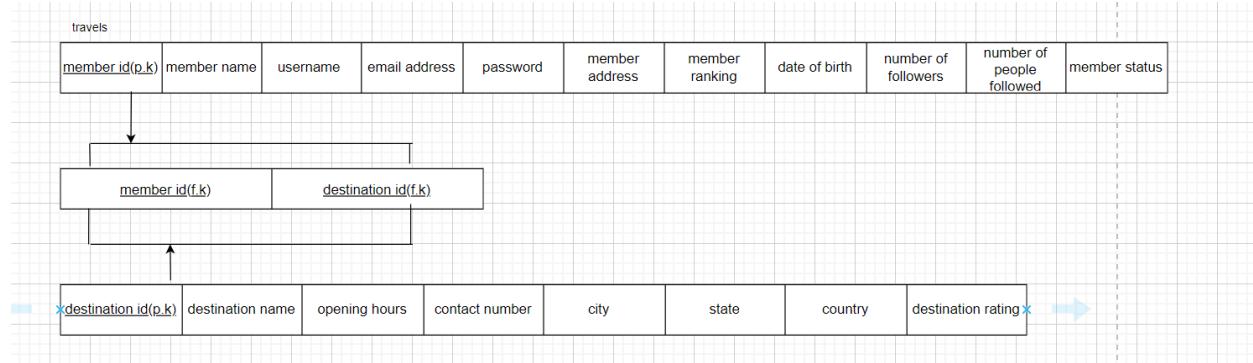
## 2.11 Restaurant



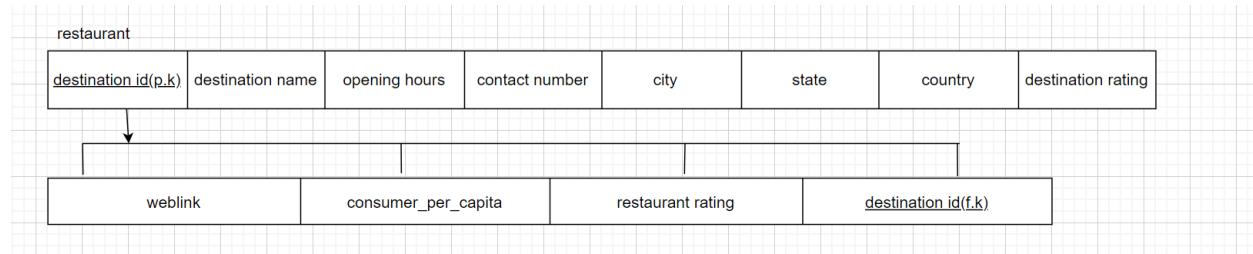
## 2.12 Shopping



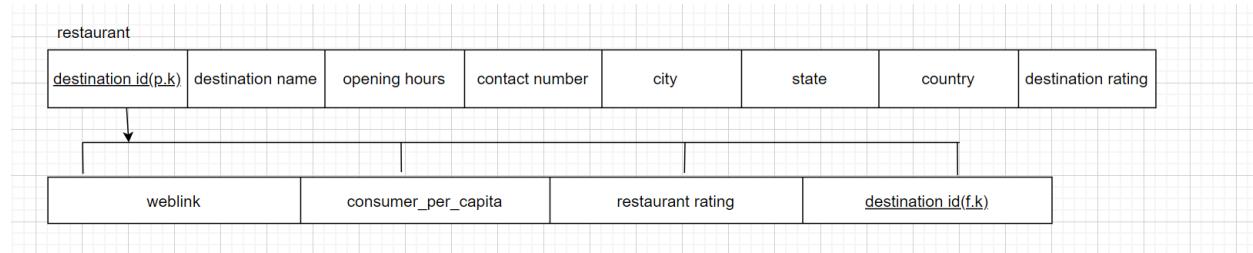
## 2.13 Travels



## 2.14 Wished destinations



## 2.15 Visited destinations



## 2.16 Ways of Travel

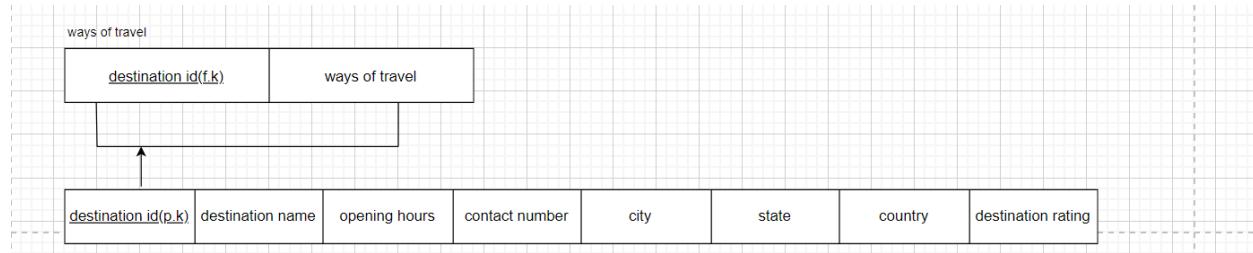




Figure 2. Whole Dependency Diagram for Trip Share Management Database

## 3. Implementation of Database

### 3.1. Creation of Database with SQL Statements

After normalizing every relational schema into third normal form and modifying some details, it is the time to implement our database using SQL languages into Oracle.

#### 3.1.1 Table Creation

Using SQL statement, we created XX tables as follows:

- **Destination:**

```
create table destination(
Destinationid int Primary key,
destinationname varchar(50),
Openinghours time,
Phonenumber int,
City varchar(20),
State varchar(20),
Country varchar(20),
Destination_Rating INT CHECK (Destination_Rating BETWEEN 1 AND 5),
);
```

- **Authorizedmembers:**

```
create table AuthorizedMembers(
Memberid int primary key,
Member_Name varchar(50),
username varchar(40) NOT NULL unique,
emailaddress varchar(50),
password varchar(50),
member_Address varchar(50),
memberranking int,
date_of_birth DATETIME,
number_of_followers int,
number_of_people_followed int,
member_status varchar(40),
Destinationid int,
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **sight:**

```
create table sight(
ticketprice int,
Weblink varchar(100),
destinationid int primary key,
```

```
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID)
);
```

- **restaurant:**

```
create table restaurant(
Weblink varchar(40),
Consumption_per_capita int,
Restaurant_Rating INT CHECK (Restaurant_Rating BETWEEN 1 AND 5),
destinationid int primary key,
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **shopping:**

```
create table shopping(
weblink varchar(30),
destinationid int primary key,
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **business partner:**

```
create table BusinessPartner(
BpID int primary key,
BusinessName varchar(50),
BusinessType varchar(50),
destinationid int,
Contact_Person varchar(40),
business_contact_number varchar(20),
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **comments:**

```
create table Comments(
commentid int primary key,
Memberid int,
Destinationid int,
posted_date DATETIME,
posted_time DATETIME,
Content varchar(1000),
Rating INT CHECK (Rating BETWEEN 1 AND 5),
LikeDislike VARCHAR(10) CHECK (LikeDislike IN('Like','Dislike')),
reply_content varchar(50),
foreign key(Memberid) References AuthorizedMembers(Memberid),
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **images:**

```
create table images(
```

```
Memberid int,
Destinationid int,
destinationname varchar(50),
imageid int primary key,
imagelink varchar(50),
foreign key(Memberid) References AuthorizedMembers(Memberid),
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **destinationdescription:**

```
create table destinationdescription(
memberid int primary key,
destinationid int,
ModifiedDate DATETIME,
Foreign key (memberid) references authorizedmembers(memberid),
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID)
);
```

- **regular\_members:**

```
create table regular_members(
MemberID int primary key,
number_of_followers int,
FOREIGN KEY (MemberID) REFERENCES AuthorizedMembers(MemberID),
);
```

- **associated:**

```
create table associated(
bpid int,
Destinationid int,
primary key(bpid, Destinationid),
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID),
FOREIGN KEY (BPID) REFERENCES BusinessPartner(BPID)
);
```

- **preferred\_members:**

```
create table preferred_members(
MemberID int primary key,
number_of_followers int,
FOREIGN KEY (MemberID) REFERENCES AuthorizedMembers(MemberID),
);
```

- **waysoftravel:**

```
create table waysoftravel(
Destinationid int primary key,
waytravel varchar(50)
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **wish\_destination:**

```
create table wish_Destination(  
Memberid int,  
wishlist varchar(1000),  
foreign key(Memberid) References AuthorizedMembers(Memberid));
```

- **visited\_destination:**

```
create table visited_Destination(  
Memberid int,  
visitedlist varchar(1000),  
foreign key(Memberid) References AuthorizedMembers(Memberid));
```

- **travels:**

```
create table travels(  
memberid int,  
Destinationid int,  
primary key(memberid, Destinationid),  
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID),  
foreign key(Memberid) References AuthorizedMembers(Memberid)  
);
```

- **Tripplan:**

```
create table TripPlan(  
Planid int primary key,  
Memberid int,  
Destinationid int,  
plan_name varchar(50),  
purpose_of_visit varchar(50),  
Start_Date_Time DATETIME,  
End_Date_Time DATETIME,  
Duration varchar(20),  
Arrival_time DATETIME,  
Departure_time DATETIME,  
Potential_Cost int,  
foreign key(Memberid) References AuthorizedMembers(Memberid),  
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID));
```

- **Rates:**

```
create table Rates(  
MemberID int,  
destinationID int,  
Planid int,  
rateid int primary key,  
plan_rating INT CHECK (plan_rating BETWEEN 1 AND 5),  
FOREIGN KEY (MemberID) REFERENCES AuthorizedMembers(MemberID),
```

```
FOREIGN KEY (DestinationID) REFERENCES Destination(DestinationID)
);
```

### 3.1.2. A Database State

We insert some values into the database in order to test our SQL query statement. The insertion statements and the results are shown as follows:

- **INSERTION OF TABLE Destination**

The screenshot shows a SQL query being executed in a management tool. The query inserts 40 rows of data into the 'destination' table. The results pane displays the inserted data, which includes various global landmarks and their details such as name, opening hours, phone number, and location.

DestinationID	destinationname	Openinghours	Phonenumber	City	State	Country	Destination_Rating
1	Eiffel Tower	20:20:00.000000	-1103	paris	ile-de-france	France	2
2	Mamas Restaurant	13:44:00.000000	-5697	Tyler	Texas	United States	2
3	GVK Mall	08:01:00.000000	-8146	Hyderabad	Telangana	India	2
4	Shah Ghouse Restaurant	11:37:00.000000	-2349	Hyderabad	Telangana	India	5
5	House of Blues Dallas	04:40:00.000000	-5263	Dallas	Texas	United States	4
6	Connecticut River Walk	09:44:00.000000	-4045	Springfield	Connecticut	United States	3
7	Vieux Port	18:45:00.000000	-5545	Marseille	Provence	France	3
8	The Sico Route	10:25:00.000000	-7772	New Delhi	Delhi	India	5
9	Great Wall of China	15:17:00.000000	-9408	Beijing	Shunyi District	China	1
10	Tama Restaurant	04:48:00.000000	-9704	New Delhi	Delhi	India	5
11	Stonestown Galleria	14:55:00.000000	-8625	San Francisco	California	United States	3
12	infinity mall	12:26:00.000000	-4302	Mumbai	Maharashtra	India	2
13	Salajung Museum	16:45:00.000000	-2217	Hyderabad	Telangana	India	2
14	CityWalk Mall	02:20:00.000000	-4457	New Delhi	Delhi	India	2
15	Pista House Restaurant	08:56:00.000000	-6878	Hyderabad	Telangana	India	2
16	The Chanakyapuri Mall	18:48:00.000000	-8531	New Delhi	Delhi	India	5
17	Museum of the American GI	10:20:00.000000	-2153	College Station	Texas	United States	2
18	Notre-Dame Cathedral	14:07:00.000000	-6808	Paris	ile-de-france	France	4
19	Petite France district	02:42:00.000000	-4854	Corsica	Corse-du-Sud	France	5
20	Brickell City Centre	05:38:00.000000	-2611	Miami	Florida	United States	1

- **INSERTION OF TABLE Authorized members**

destination.insert...S4IDGORR\alit (64)/*	tripmanagementshare...IDGORR\alit (62)/*	rates_insert.sql - L...S4IDGORR\alit (81)	authorizedmembers...IDGORR\alit (51) ✎								
■ insert into AuthorizedMembers (MemberId, Member_Name, username, Password, emailaddress, member_Address, membreRanking, date_of_birth, number_of_followers, num   (110, 'Hugues Philott', 'hphilott0', '427-761-0194', 'hphilott0@chicagotribune.com', '3182 Bunker Hill Crossing', 2, '9/9/2021', 39, 24, 'false', 2),   (203, 'Mayra Blore', 'mbllore1', '391-393-0469', 'mbllore1@umich.edu', '11 Lindbergh Terrace', 13, '10/20/2021', 9, 3, 'false', 3),   (259, 'Catarina Limer', 'climer2', '470-617-3829', 'climer2@live.com', '700 Tony Way', 36, '4/12/2022', 37, 37, 'true', 5),   (236, 'Hetty Stroder', 'hstroder3', '290-290-0061', 'hstroder3@atena.ne.jp', '658 Karstens Parkway', 5, '9/1/2021', 11, 5, 'true', 7),   (198, 'Evy McReynolds', 'emcreynolds4', '716-504-8284', 'emcreynolds4@surveymonkey.com', '8 Maple Wood Trail', 34, '8/28/2021', 32, 26, 'false', 8),   (188, 'Ashley Pawson', 'apawson5', '863-908-8267', 'apawson5@canablog.com', '84 Thackeray Parkway', 18, '12/25/2021', 3, 37, 'true', 9),   (195, 'Elliot Sutherby', 'esutherby6', '769-108-7753', 'esutherby6@ucla.edu', '562 Calypso Pass', 3, '6/5/2021', 32, 23, 'true', 12),   (182, 'Joni Eilert', 'jeilert7', '812-573-9347', 'jeilert7@squarespace.com', '479 Susan Park', 31, '3/14/2022', 23, 34, 'false', 16),   (166, 'Vinnie Hechlin', 'vhechlin8', '291-163-3698', 'vhechlin8@panel.net', '3064 81st Street', 27, '8/25/2021', 26, 1, 'true', 17),   (281, 'Bennie Davitashvili', 'bdavitashvili9', '636-382-1388', 'bdavitashvili9@ox.ac.uk', '3 Fisk Drive', 34, '4/20/2021', 15, 12, 'false', 18),   (278, 'Nicolli Dowrey', 'ndowreya', '295-272-9814', 'ndowreya@bigcartel.com', '921 Memorial Center', 36, '1/28/2022', 9, 10, 'true', 19),   (144, 'Kassandra McCollum', 'kmcollumb', '782-718-8273', 'kmcollumb@yandex.ru', '930 American Ash Road', 32, '2/7/2022', 2, 37, 'false', 21),   (290, 'Iolanthe Turfes', 'iturfes', '696-143-3033', 'iturfes@chron.com', '998 Eagle Crest Circle', 7, '3/30/2022', 31, 24, 'true', 24),   (122, 'Sheree Wayon', 'swayond', '499-634-5628', 'swayond@chron.com', '80169 Golden Leaf Center', 5, '3/24/2022', 13, 21, 'true', 25),   (220, 'Fidelle Coley', 'fcoley', '792-700-4148', 'fcoley@google.com.hk', '15 Utah Street', 39, '10/26/2021', 35, 36, 'false', 26),   (271, 'Atlante Tuvey', 'atveyuf', '466-408-2464', 'atveyuf@y.edu', '4 North Plaza', 39, '10/6/2021', 18, 10, 'false', 27),   (112, 'Tisha Oldham', 'toldhamg', '765-285-9046', 'toldhamg@dion.ne.jp', '108 Russell Crossing', 33, '11/28/2021', 16, 7, 'true', 34),   (249, 'Vernen Leetham', 'vleethamh', '484-921-9660', 'vleethamh@shareasale.com', '9 Ohio Junction', 35, '5/22/2021', 24, 10, 'false', 36), 100% ↻											
Results	Messages										
MemberId	Member_Name	username	emailaddress	password	member_Address	membreRanking	date_of_birth	number_of_followers	number_of_people_followed	member_status	Destinationid
1	105	Elliot Sutherby	esutherby6	esutherby6@ucla.edu	769-108-7753	562 Calypso Pass	3	2021-06-05 00:00:00.000	32	23	true
2	110	Hugues Philott	hphilott0	hphilott0@chicagotribune.com	427-761-0194	3182 Bunker Hill Crossing	2	2021-09-09 00:00:00.000	39	24	false
3	112	Tisha Oldham	toldhamg	toldhamg@dion.ne.jp	765-285-9046	108 Russell Crossing	33	2021-11-20 00:00:00.000	16	7	true
4	122	Sheree Wayon	swayond	swayond@chron.com	499-634-5628	80169 Golden Leaf Center	5	2022-03-24 00:00:00.000	13	21	true
5	125	Dot Blenkhorn	dblenkhornj	dblenkhornj@blogs.com	235-746-6934	97047 Carpenter Point	21	2022-01-17 00:00:00.000	8	28	false
6	128	Debor Colson	dcolson1	dcolson@stortify.com	520-347-0949	6977 Memorial Road	14	2022-02-24 00:00:00.000	11	3	true
7	144	Kassandra McCollum	kmcollumb	kmcollumb@yandex.ru	782-718-8733	930 American Ash Road	32	2022-02-07 00:00:00.000	2	37	false
8	161	Katey Ricci	kricciy	kricciy@ted.com	224-944-9040	870 Bunk Hill Circle	8	2021-10-20 00:00:00.000	10	7	false
9	164	Mathieu Couthard	mcouthardm	mcouthardm@scribd.com	217-257-9636	772 Kildare Road	15	2021-05-21 00:00:00.000	32	32	true
10	166	Vinnie Hechlin	vhechlin8	vhechlin8@panel.net	291-163-3698	40361 Fairview Avenue	27	2021-08-25 00:00:00.000	26	1	true
11	176	Holas Huetas	hhuetas10	hhuetas10@weebly.com	187-835-5371	59 Sherman Alley	29	2021-10-11 00:00:00.000	1	40	false
12	177	Forester Simak	fsimakw	fsimakw@dropbox.com	627-614-7672	3879 Kinsman Circle	8	2021-09-06 00:00:00.000	22	28	false
13	182	Joni Eilert	jeilert7	jeilert7@squarespace.com	812-573-9347	79 Susan Park	31	2022-03-14 00:00:00.000	23	34	false
14	188	Ashley Pawson	apawson5	apawson5@canablog.com	863-908-8267	84 Thackeray Parkway	10	2021-12-25 00:00:00.000	3	37	true
15	189	Rubina Lunck	rluncku	rluncku@mitbeian.gov.cn	540-764-7802	893 Hudson Road	19	2022-03-02 00:00:00.000	30	8	false
16	198	Evy McReynolds	emcreynolds4	emcreynolds4@surveymonkey.com	716-504-8204	8 Maple Wood Trail	34	2021-08-28 00:00:00.000	32	26	false
17	203	Mayra Blore	mbllore1	mbllore1@umich.edu	391-393-0469	11 Lindbergh Terrace	13	2021-10-20 00:00:00.000	9	3	false
18	215	Edmon Jansa	ejanas13	ejanas13@zing.com	948-661-1565	838 Spragg Street	26	2021-07-08 00:00:00.000	40	30	true
19	216	Towney Garton	tgartonn	tgartonn@deviantart.com	276-538-7844	10140 School Place	27	2021-07-14 00:00:00.000	27	37	true

### ● **INSERTION OF TABLE** sight

```
destination.insert...S4IDGORR\lalit (64)*          tripmanagementshar...IDGORR\lalit (62)*          authorizedmembers ...IDGORR\lalit (51)          sight.insert.sql - L..S4IDGORR\lalit (52)  ▶ X
[insert into sight (ticketprice, Weblink, destinationid) values (231, 'www.EifelTower.com', 2);
insert into sight (ticketprice, Weblink, destinationid) values (85, 'www.NotreDameCathedral.com', 36);
insert into sight (ticketprice, Weblink, destinationid) values (154, 'www.VieuxPort.com', 12);
insert into sight (ticketprice, Weblink, destinationid) values (28, 'www.VieuxLyon.com', 65);
insert into sight (ticketprice, Weblink, destinationid) values (71, 'www.PetiteFrancedistrict.com', 37);
insert into sight (ticketprice, Weblink, destinationid) values (231, 'www.Romanamphitheatre.com', 87);
insert into sight (ticketprice, Weblink, destinationid) values (214, 'www.BeauxArtsmuseum.com', 66);
insert into sight (ticketprice, Weblink, destinationid) values (170, 'www.CrockerArtMuseuem.com', 45);
insert into sight (ticketprice, Weblink, destinationid) values (153, 'www.ElPasoMuseumoofArt.com', 80);
insert into sight (ticketprice, Weblink, destinationid) values (30, 'www.TimesSquare.com', 86);
insert into sight (ticketprice, Weblink, destinationid) values (173, 'www.HouseofBluesDallas.com', 8);
insert into sight (ticketprice, Weblink, destinationid) values (248, 'www.ConnecticutRiverWalk.com', 9);
insert into sight (ticketprice, Weblink, destinationid) values (236, 'www.StonestownGalleria.com', 19);
insert into sight (ticketprice, Weblink, destinationid) values (140, 'www.FaneuilHall.com', 58);
insert into sight (ticketprice, Weblink, destinationid) values (291, 'www.MuseumoftheAmericanGI.com', 34);
insert into sight (ticketprice, Weblink, destinationid) values (83, 'www.ArtInstituteofChicago.com', 48);
insert into sight (ticketprice, Weblink, destinationid) values (141, 'www.Muncie.com', 93);
insert into sight (ticketprice, Weblink, destinationid) values (133, 'www.RedFort.com', 57);
insert into sight (ticketprice, Weblink, destinationid) values (163, 'www.FalaknumaPalace.com', 46);]

100% ▾

Results  Messages


|    | ticketprice | Weblink                       | destinationid |
|----|-------------|-------------------------------|---------------|
| 1  | 231         | www.EifelTower.com            | 2             |
| 2  | 173         | www.HouseofBluesDallas.com    | 8             |
| 3  | 248         | www.ConnecticutRiverWalk.com  | 9             |
| 4  | 154         | www.VieuxPort.com             | 12            |
| 5  | 249         | www.GreatWallofChina.com      | 17            |
| 6  | 236         | www.StonestownGalleria.com    | 19            |
| 7  | 293         | www.SalarjungMuseum.com       | 24            |
| 8  | 291         | www.MuseumoftheAmericanGI.com | 34            |
| 9  | 85          | www.NotreDameCathedral.com    | 36            |
| 10 | 71          | www.PetiteFrancedistrict.com  | 37            |
| 11 | 170         | www.CrockerArtMuseuem.com     | 45            |
| 12 | 163         | www.FalaknumaPalace.com       | 46            |
| 13 | 83          | www.ArtInstituteofChicago.com | 48            |
| 14 | 133         | www.RedFort.com               | 57            |
| 15 | 140         | www.FaneuilHall.com           | 58            |
| 16 | 28          | www.VieuxLyon.com             | 65            |
| 17 | 214         | www.BeauxArtsmuseum.com       | 66            |
| 18 | 244         | www.SevenTombs.com            | 75            |
| 19 | 153         | www.ElPasoMuseumoofArt.com    | 80            |
| 20 | 30          | www.TimesSquare.com           | 86            |



Query executed successfully.


```

## ● INSERTION OF TABLE restaurant

```
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (28, 'https://TexasRoadhouse.org', 1, 62);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (43, 'https://MamasRestaurant.com', 3, 3);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (25, 'https://HappyFishHouse.com', 1, 96);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (8, 'https://VillaMontez.com', 4, 95);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (38, 'https://ShahGhouseRestaurant.com', 5, 7);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (16, 'http://TamaRaRestaurant.com', 4, 18);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (34, 'http://TheSpiceRoute.com', 3, 16);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (8, 'https://MisterAsRestaurant.com', 3, 78);
insert into restaurant (Consumption_per_capita, Weblink, Restaurant_Rating, destinationid) values (11, 'https://PistahouseRestuarant.com', 5, 26);

select * from restaurant;
```

Results Messages			
Weblink	Consumption_per_capita	Restaurant_Rating	destinationid
https://MamasRestaurant.com	43	3	3
https://ShahGhouseRestaurant.com	38	5	7
http://TheSpiceRoute.com	34	3	16
http://TamaRaRestaurant.com	16	4	18
https://PistahouseRestaurant.com	11	5	26
https://TexasRoadhouse.org	28	1	62
https://MisterAsRestaurant.com	8	3	78
https://VillaMontez.com	8	4	95
https://HappyFishHouse.com	25	1	96

## ● INSERTION OF TABLE shopping

Results Messages	
weblink	destinationid
1 https://GVKMall.com	5
2 https://infinitymall.com	21
3 https://CityWalkMall.com	25
4 https://TheChanakyaMall.edu	27
5 https://CBRMall.com	52
6 http://TheGalleriaMall.com	90
7 http://InorbitMall.com	98

Query executed successfully.

## ● INSERTION OF TABLE Businesspartner

```

tripmanagementshar...IDGORR\alit (62)*      restaurant.insert..._S4IDGORR\alit (53)      shopping.insert.sql...4IDGORR\alit (60)      businesspartner.ins...4IDGORR\alit (56)  +
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (14, 'CBR inc.', 'Mall', 52, 'Dor
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (49, 'infinity inc', 'Mall', 21,
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (88, 'GVK inc', 'Mall', 5, 'Corr
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (10, 'Inorbit inc', 'Mall', 98, 'I
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (78, 'Chanakya inc', 'Mall', 27,
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (42, 'Roadhouse org', 'Restaurant
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (5, 'MAMAS org', 'Restaurant', 3,
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (70, 'Happy Fish house org', 'Res
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (48, 'Villa org', 'Restaurant', 9
insert into BusinessPartner (BpID, BusinessName, BusinessType, destinationid, Contact_Person, business_contact_number) values (31, 'Shah ghouse brothers', 'Res

select * from businesspartner;

```

Results

BpID	BusinessName	BusinessType	destinationid	Contact_Person	business_contact_number
1	5 MAMAS org	Restaurant	3	Virgilio Bardell	1002003000
2	10 Inorbit inc	Mall	98	Genna Goldell	1112212397
3	14 CBR inc.	Mall	52	Donovan Wanek	1892346981
4	31 Shah ghouse brothers	Restaurant	7	Peregrin Brahm	66577373456
5	42 Roadhouse org	Restaurant	62	Lonnard Golightly	8491733610
6	48 Villa org	Restaurant	85	Geno Crossl	8788781234
7	49 infinity inc	Mall	21	Laurena Danslow	2643714681
8	70 Happy Fish house org	Restaurant	96	Maryann Bayye	4781489999
9	78 Chanakya inc	Mall	27	Gris Omond	999213456
10	88 GVK inc	Mall	5	Cornanne Houtbie	3526138291

Messages

Query executed successfully.

## ● INSERTION OF TABLE comments

```

tripmanagementshar...IDGORR\alit (62)*      shopping.insert.sql...4IDGORR\alit (60)      businesspartner.ins...4IDGORR\alit (56)      comments.insert.sql...4IDGORR\alit (73)  +
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (1, 110, 52, '1/3/2021'
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (2, 203, 21, '1/25/2021'
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (3, 259, 2, '1/23/2021'
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (8, 236, 40, '2/16/2022
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (5, 198, 36, '5/1/2021'
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (6, 188, 12, '3/1/2022
insert into Comments (commentid, Memberid, Destinationid, posted_date, posted_time, Content, Rating, LikeDislike, reply_content) values (7, 105, 65, '1/8/2021

select * from comments;

```

Results

commentid	Memberid	Destinationid	posted_date	posted_time	Content	Rating	LikeDislike	reply_content
1	110	52	2021-01-03 00:00:00.000	1900-01-01 14:46:00.000	Very Good	3	Like	I totally Agree
2	203	21	2021-01-25 00:00:00.000	1900-01-01 23:49:00.000	Excellent Place	1	Like	You its is right
3	259	2	2021-01-23 00:00:00.000	1900-01-01 17:49:00.000	I liked it a lot	2	Like	I feel so too
4	198	36	2021-05-01 00:00:00.000	1900-01-01 04:10:00.000	This Place is horrendous	5	Dislike	That might have been an exception
5	188	12	2022-03-01 00:00:00.000	1900-01-01 03:20:00.000	Not worth the money	5	Dislike	Dont be so harsh
6	105	65	2021-01-08 00:00:00.000	1900-01-01 23:48:00.000	Not Maintained Properly	2	Dislike	Yes its true
7	236	40	2022-02-16 00:00:00.000	1900-01-01 01:26:00.000	Its Awesome	2	Like	I do not agree

## ● INSERTION OF TABLE images

```

tripmanagementshar...4IDGORR\jalit (62)*      businesspartner.ins...4IDGORR\jalit (56)      comments.insertsq...4IDGORR\jalit (73)      images.insertsql ...S4IDGORR\jalit (67)      images.insert.sql ...S4IDGORR\jalit (67)  ✎ ×
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (110, 52, 'CBR Mall', 28, 'http://images.com/227x100.png/cce000/fffff1');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (203, 21, 'infinity mall', 96, 'http://images.com/111x100.png/5fa2dd/ffff');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (259, 2, 'Eifel Tower', 37, 'http://images.com/131x100.png/5fa2dd/ffff');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (236, 40, 'Brickell City Centre', 83, 'http://images.com/129x100.png/5fa2dd/ffff');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (198, 36, 'Notre-Dame Cathedral', 23, 'http://images.com/177x100.png/5fa2dd/ffff');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (188, 12, 'Vieux Port', 43, 'http://images.com/231x100.png/ff4444/ffff');
    insert into images (Memberid, Destinationid, destinationname, imageid, imagelink) values (105, 65, 'Vieux Lyon', 9, 'http://images.com/106x100.png/ff4444/ffff');

    select * from images;

100 %  ↵
Results  Messages
Memberid Destinationid destinationname imageid imagelink
1 105 65 Vieux Lyon 9 http://images.com/106x100.png/ff4444/ffff
2 198 36 Notre-Dame Cathedral 23 http://images.com/177x100.png/5fa2dd/ffff
3 110 52 CBR Mall 28 http://images.com/227x100.png/cce000/fffff1
4 259 2 Eifel Tower 37 http://images.com/131x100.png/5fa2dd/ffff
5 188 12 Vieux Port 43 http://images.com/231x100.png/ff4444/ffff
6 236 40 Brickell City Centre 83 http://images.com/129x100.png/5fa2dd/000000
7 203 21 infinity mall 96 http://images.com/111x100.png/5fa2dd/ffff

Query executed successfully.  LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... | Trip Share Management | 00:00:00 | 7 rows

```

## ● INSERTION OF TABLE Destinationdescription

```

tripmanagementshar...4IDGORR\jalit (62)*      comments.insertsq...4IDGORR\jalit (73)      images.insertsql ...S4IDGORR\jalit (67)      destinationdescript...4IDGORR\jalit (69)  ✎ ×
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (110, 52, '12/29/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (203, 21, '2/10/2022');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (259, 2, '10/12/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (236, 40, '10/10/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (198, 36, '1/7/2022');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (188, 12, '8/3/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (105, 65, '5/21/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (182, 37, '12/28/2021');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (166, 87, '2/17/2022');
    insert into destinationdescription (Memberid, destinationid, ModifiedDate) values (281, 66, '8/26/2021');

    select * from destinationdescription;

100 %  ↵
Results  Messages
memberid destinationid ModifiedDate
1 105 65 2021-05-21 00:00:00.000
2 110 52 2021-12-29 00:00:00.000
3 166 87 2022-02-17 00:00:00.000
4 182 37 2021-12-28 00:00:00.000
5 188 12 2021-08-03 00:00:00.000
6 198 36 2022-01-07 00:00:00.000
7 203 21 2022-02-10 00:00:00.000
8 236 40 2021-10-10 00:00:00.000
9 259 2 2021-10-12 00:00:00.000
10 281 66 2021-08-26 00:00:00.000

Query executed successfully.  LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... | Trip Share Management | 00:00:00 | 10 rows

```

## ● INSERTION OF TABLE regular\_members

The screenshot shows a SQL query window with the following content:

```

tripmanagementshare..IDGORR\jalit (62)*      images_insert.sql ...S4IDGORR\jalit (67)      destinationdescript...4IDGORR\jalit (69)      regular_members_in...IDGORR\jalit (74)  ✎ X
insert into regular_members (MemberId, number_of_followers) values (271, 16);
insert into regular_members (MemberId, number_of_followers) values (275, 14);
insert into regular_members (MemberId, number_of_followers) values (128, 1);
insert into regular_members (MemberId, number_of_followers) values (269, 2);
insert into regular_members (MemberId, number_of_followers) values (112, 16);
insert into regular_members (MemberId, number_of_followers) values (161, 10);
insert into regular_members (MemberId, number_of_followers) values (125, 13);
insert into regular_members (MemberId, number_of_followers) values (144, 2);
insert into regular_members (MemberId, number_of_followers) values (277, 16);
insert into regular_members (MemberId, number_of_followers) values (281, 15);
insert into regular_members (MemberId, number_of_followers) values (188, 3);
insert into regular_members (MemberId, number_of_followers) values (238, 17);
insert into regular_members (MemberId, number_of_followers) values (203, 9);
insert into regular_members (MemberId, number_of_followers) values (122, 13)

select * from regular_members;

```

Below the query results, a table named 'regular\_members' is displayed with the following data:

MemberID	number_of_followers
112	16
122	13
125	13
128	1
144	2
161	10
176	1
188	3
203	9
236	17
238	17
264	1
269	2
270	9
271	16
275	14
277	16
279	2
281	15

At the bottom of the screen, a message indicates: "Query executed successfully." and "LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... Trip Share Management | 00:00:00 | 19 rows".

## ● INSERTION OF TABLE associated

The screenshot shows a SQL query window with the following content:

```

tripmanagementshare..IDGORR\jalit (62)*      destinationdescript...4IDGORR\jalit (69)      regular_members_in...IDGORR\jalit (74)      associated_insert.s...S4IDGORR\jalit (66)  ✎ X
insert into associated (BpID, destinationid) values (14, 52);
insert into associated (BpID, destinationid) values (49, 21);
insert into associated (BpID, destinationid) values (88, 51);
insert into associated (BpID, destinationid) values (10, 98);
insert into associated (BpID, destinationid) values (78, 27);
insert into associated (BpID, destinationid) values (42, 62);
insert into associated (BpID, destinationid) values (5, 3);
insert into associated (BpID, destinationid) values (70, 96);
insert into associated (BpID, destinationid) values (48, 95);
insert into associated (BpID, destinationid) values (31, 7);

select * from associated;

```

Below the query results, a table named 'associated' is displayed with the following data:

BpID	DestinationID
5	3
10	98
14	52
31	7
42	62
48	95
49	21
70	96
78	27
88	5

At the bottom of the screen, a message indicates: "Query executed successfully." and "LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... Trip Share Management | 00:00:00 | 10 rows".

## ● INSERTION OF TABLE preferred\_members

The screenshot shows the SQL Server Management Studio interface with four tabs at the top: destinationdescript...4IDGORR\jalit (69), regular\_members\_in...IDGORR\jalit (74), associated\_inserts...S4IDGORR\jalit (66), and preferred\_members...IDGORR\jalit (65). The preferred\_members tab contains the following SQL code:

```
insert into preferred_members (Memberid, number_of_followers) values (105, 32);
insert into preferred_members (Memberid, number_of_followers) values (110, 39);
insert into preferred_members (Memberid, number_of_followers) values (164, 32);
insert into preferred_members (Memberid, number_of_followers) values (166, 26);
insert into preferred_members (Memberid, number_of_followers) values (177, 22);
insert into preferred_members (Memberid, number_of_followers) values (182, 23);
insert into preferred_members (Memberid, number_of_followers) values (189, 30);
insert into preferred_members (Memberid, number_of_followers) values (198, 32);
insert into preferred_members (Memberid, number_of_followers) values (215, 40);
insert into preferred_members (Memberid, number_of_followers) values (216, 27);
insert into preferred_members (Memberid, number_of_followers) values (220, 35);
insert into preferred_members (Memberid, number_of_followers) values (230, 28);
insert into preferred_members (Memberid, number_of_followers) values (242, 23);
insert into preferred_members (Memberid, number_of_followers) values (249, 24);
insert into preferred_members (Memberid, number_of_followers) values (259, 37);
insert into preferred_members (Memberid, number_of_followers) values (266, 17);
insert into preferred_members (Memberid, number_of_followers) values (267, 39);
insert into preferred_members (Memberid, number_of_followers) values (273, 39);
insert into preferred_members (Memberid, number_of_followers) values (273, 39);
insert into preferred_members (Memberid, number_of_followers) values (285, 21);
insert into preferred_members (Memberid, number_of_followers) values (285, 21);
```

The Results tab displays the inserted data:

MemberID	number_of_followers
2	110
3	164
4	166
5	177
6	182
7	189
8	198
9	215
10	216
11	220
12	230
13	242
14	249
15	259
16	266
17	267
18	273
19	285
20	286
21	290

At the bottom, a message indicates "Query executed successfully." and shows the session details: LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... | Trip Share Management | 00:00:00 | 21 rows.

## ● INSERTION OF TABLE waysoftravel

The screenshot shows the SQL Server Management Studio interface with four tabs at the top: associated\_inserts...S4IDGORR\jalit (66), preferred\_members...IDGORR\jalit (65), tripmanagementshar...IDGORR\jalit (62)\*, and waysoftravel\_insert..4IDGORR\jalit (76). The waysoftravel tab contains the following SQL code:

```
insert into waysoftravel (destinationid, waytravel) values
(2, 'bus, train, car, plane'),
(3, 'train, car, plane'),
(5, 'train, car, plane'),
(7, 'bus, car, plane'),
(8, 'bus, train, car, plane'),
(9, 'bus, train, car, plane'),
(12, 'bus, train, car, plane'),
(16, 'train, plane'),
(17, 'car, plane'),
(18, 'car, plane'),
(19, 'bus, train, car'),
(21, 'bus, train, car'),
(24, 'bus, train, car'),
(25, 'bus, train, plane'),
(26, 'bus, train, plane'),
(27, 'bus, train, car, plane'),
(34, 'bus'),
(36, 'train, car, plane'),
```

The Results tab displays the inserted data:

DestinationID	waytravel
1	
2	bus, train, car, plane
3	train, car, plane
4	bus, car, plane
5	bus, train, car, plane
6	bus, train, car, plane
7	bus, train, car, plane
8	train, plane
9	car, plane
10	car, plane
11	bus, train, car
12	bus, train, car
13	bus, train, car
14	bus, train, plane
15	bus, train, plane
16	bus, train, car, plane
17	bus
18	train, car, plane
19	train
20	bus

At the bottom, a message indicates "Query executed successfully." and shows the session details: LAPTOP-S4IDGORR (15.0 RTM) | LAPTOP-S4IDGORR\jalit ... | Trip Share Management | 00:00:00 | 40 rows.

## ● INSERTION OF TABLE wish\_destination

```

preferred_members ...IDGORR\jalit (65)      tripmanagementshar...IDGORR\jalit (62)*      waysoftravel_insert...4IDGORR\jalit (76)      wish_destination.in...4IDGORR\jalit (79)  ×
insert into wish_destination (Memberid, wishlist) values
(105, 'Kalamazoo, Crocker Art Museum, Falaknuma Palace, Art Institute of Chicago, CBR Mall, Red Fort, Faneuil Hall, Texas Roadhouse, Vieux Lyon'),
(110, 'Kalamazoo, Beaux-Arts museum, Roman amphitheatre, Happy's Fish House'),
(112, 'Eiffel Tower, Mamas Restaurant, Notre-Dame Cathedral'),
(122, 'Eiffel Tower, Mamas Restaurant, GVK Mall, Shah Ghouse Restaurant, House of Blues Dallas'),
(125, 'The Sice Route, Great Wall of China, Tamra Restaurant, Notre-Dame Cathedral'),
(277, 'Eiffel Tower, Shah Ghouse Restaurant, House of Blues Dallas, Connecticut River Walk, Vieux Port, The Sice Route, Great Wall of China, Tamra Restaurant, S'),
(279, 'Crocker Art Museum, Art Institute of Chicago, CBR Mall, Texas Roadhouse, Vieux Lyon'),
(281, 'Kalamazoo, Crocker Art Museum, CBR Mall, Red Fort, Faneuil Hall, Texas Roadhouse, Vieux Lyon'),
(285, 'infinity mall, Salarjung Museum, Notre-Dame Cathedral, Petite France district, Brickell City Centre, Eiffel Tower'),
(286, 'CityWalk Mall, Pista House Restaurant, The Chanakya Mall, Museum of the American GI, Eiffel Tower, Red Fort, Notre-Dame Cathedral'),
(290, 'Eiffel Tower, Notre-Dame Cathedral, CityWalk Mall, Pista House Restaurant, The Chanakya Mall, Petite France district, Brickell City Centre');

select * from wish_destination;
  
```

Results

Memberid	wishlist
105	Kalamazoo, Crocker Art Museum, Falaknuma Palac...
110	Kalamazoo, Beaux-Arts museum, Roman amphitheat...
112	Eiffel Tower, Mamas Restaurant, Notre-Dame Cathedr...
122	Eiffel Tower, Mamas Restaurant, GVK Mall, Shah Gho...
125	The Sice Route, Great Wall of China, Tamra Restaura...
277	Eiffel Tower, Shah Ghouse Restaurant, House of Blue...
279	Crocker Art Museum, Art Institute of Chicago, CBR M...
281	Kalamazoo, Crocker Art Museum, CBR Mall, Red Fo...
285	infinity mall, Salarjung Museum, Notre-Dame Cathedr...
286	CityWalk Mall, Pista House Restaurant, The Chanakya...
290	Eiffel Tower, Notre-Dame Cathedral, CityWalk Mall, Pis...

Messages

Query executed successfully.

## ● INSERTION OF TABLE visited\_destination

```

tripmanagementshar...IDGORR\jalit (62)*      waysoftravel_insert...4IDGORR\jalit (76)      wish_destination.in...4IDGORR\jalit (79)  ×
visited_destination...S4IDGORR\jalit (70)  ×
insert into visited_destination (Memberid, visitedlist) values
(105, 'Art Institute of Chicago, CBR Mall, Red Fort, Faneuil Hall, Texas Roadhouse, Vieux Lyon'),
(110, 'Kalamazoo, Beaux-Arts museum, '),
(112, 'Eiffel Tower, Notre-Dame Cathedral'),
(122, 'Eiffel Tower, Shah Ghouse Restaurant, House of Blues Dallas'),
(125, 'The Sice Route, Great Wall of China, Tamra Restaurant, Notre-Dame Cathedral'),
(277, 'Eiffel Tower, Shah Ghouse Restaurant, Connecticut River Walk, Vieux Port, Stonestown Galleria, infinity mall'),
(279, 'Crocker Art Museum, CBR Mall, Texas Roadhouse'),
(281, 'Kalamazoo, Crocker Art Museum, CBR Mall, Red Fort, Faneuil Hall, Texas Roadhouse, Vieux Lyon'),
(285, 'infinity mall, Salarjung Museum, Notre-Dame Cathedral, Petite France district, Brickell City Centre, Eiffel Tower'),
(286, 'CityWalk Mall, Pista House Restaurant, The Chanakya Mall, Eiffel Tower, Red Fort'),
(290, 'Eiffel Tower, Notre-Dame Cathedral, The Chanakya ...');

select * from visited_destination;
  
```

Results

Memberid	visitedlist
105	Art Institute of Chicago, CBR Mall, Red Fort, Faneuil ...
110	Kalamazoo, Beaux-Arts museum,
112	Eiffel Tower, Notre-Dame Cathedral
122	Eiffel Tower, Shah Ghouse Restaurant, House of Blu...
125	The Sice Route, Great Wall of China, Tamra Restaur...
277	Eiffel Tower, Shah Ghouse Restaurant, Connecticut R...
279	Crocker Art Museum, CBR Mall, Texas Roadhouse
281	Kalamazoo, Crocker Art Museum, CBR Mall, Red F...
285	infinity mall, Salarjung Museum, Notre-Dame Cathedr...
286	CityWalk Mall, Pista House Restaurant, The Chanaky...
290	Eiffel Tower, Notre-Dame Cathedral, The Chanakya ...

Messages

Query executed successfully.

## ● INSERTION OF TABLE travels

The screenshot shows a SQL query being run in a query editor window. The query inserts 36 rows of data into the 'travels' table, mapping member IDs to destination IDs. Below the query results, a table displays the inserted data.

```
tripmanagementshar...IDGORR\jalit (62)*    wish_destination_in...4IDGORR\jalit (79)    visited_destination...S4IDGORR\jalit (70)    travels_insert.sql ...S4IDGORR\jalit (57)    X
```

```
Insert into travels (memberid, destinationid) values
(105, 2),
(110, 3),
(112, 5),
(122, 7),
(125, 8),
(128, 9),
(144, 12),
(161, 16),
(164, 17),
(166, 18),
(176, 19),
(177, 21),
(182, 24),
(188, 25),
(189, 26),
(198, 27),
(203, 34),
(215, 36),
```

memberid	Destinationid
1	105
2	110
3	112
4	122
5	125
6	128
7	144
8	161
9	164
10	166
11	176
12	177
13	182
14	188
15	189
16	198
17	203
18	215
19	216
20	220
...	40

Query executed successfully.

## ● INSERTION OF TABLE TripPlan

The screenshot shows a SQL query being run in a query editor window. The query inserts 12 rows of data into the 'tripplan' table, mapping plan IDs to member IDs and destination IDs. Below the query results, a table displays the inserted data.

```
tripmanagementshar...IDGORR\jalit (62)*    visited_destination...S4IDGORR\jalit (70)    travels_insert.sql ... S4IDGORR\jalit (57)    tripplan.insert.sql...S4IDGORR\jalit (77)    X
```

```
Insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
insert into TripPlan (Planid, Memberid, Destinationid, plan_name, purpose_of_visit, Start_Date_Time, End_Date_Time, Duration, Arrival_time, Departure_time, Pot...
```

```
select * from tripplan;
```

Planid	Memberid	Destinationid	plan_name	purpose_of_visit	Start_Date_Time	End_Date_Time	Duration	Arrival_time	Departure_time	Potential_Cost	
1	22	110	52	Family Vacation	Vacation	2021-01-08 00:00:00.000	2021-01-28 00:00:00.000	20 days	1900-01-01 01:30:00.000	1900-01-01 02:30:00.000	10011
2	23	203	21	Field trip	Vacation	2021-01-04 00:00:00.000	2021-01-27 00:00:00.000	23 days	1900-01-04 03:30:00.000	1900-01-01 16:45:00.000	10000
3	27	198	36	Unplanned vacation	Vacation	2021-01-03 00:00:00.000	2021-01-28 00:00:00.000	25 days	1900-01-01 01:30:00.000	1900-01-01 03:30:00.000	22567
4	43	128	46	Solo Travel	Vacation	2021-01-09 00:00:00.000	2021-01-20 00:00:00.000	11 days	1900-01-01 21:00:00.000	1900-01-01 04:15:00.000	29842
5	52	259	2	Holiday	Vacation	2021-01-02 00:00:00.000	2021-01-25 00:00:00.000	23 days	1900-01-01 20:30:00.000	1900-01-01 21:15:00.000	12341
6	56	112	48	Holiday time	Vacation	2021-01-03 00:00:00.000	2021-03-04 00:00:00.000	2 months	1900-01-01 23:40:00.000	1900-01-01 05:00:00.000	10100
7	61	236	40	Business	Business	2021-01-05 00:00:00.000	2021-01-23 00:00:00.000	18 days	1900-01-01 11:30:00.000	1900-01-01 14:30:00.000	28930
8	62	105	65	Industrial Visit	Educational trip	2021-01-03 00:00:00.000	2021-03-20 00:00:00.000	2 months 17 days	1900-01-01 23:30:00.000	1900-01-01 12:15:00.000	8769
9	69	285	86	Business stop	Business	2021-01-01 00:00:00.000	2021-03-18 00:00:00.000	2 months 17 days	1900-01-01 14:00:00.000	1900-01-01 17:00:00.000	56234
10	74	125	8	Family time	Vacation	2021-01-03 00:00:00.000	2021-03-29 00:00:00.000	2 months 28 days	1900-01-01 10:00:00.000	1900-01-01 12:30:00.000	45678
11	91	188	12	School trip	Educational trip	2021-01-01 00:00:00.000	2021-03-21 00:00:00.000	3 months 20 days	1900-01-01 19:45:00.000	1900-01-01 01:15:00.000	19997
12	96	220	9	Vacation time	Vacation	2021-01-09 00:00:00.000	2021-04-08 00:00:00.000	3 months	1900-01-01 09:45:00.000	1900-01-01 22:30:00.000	24316

Query executed successfully.

## ● INSERTION OF TABLE Rates

The screenshot shows a SQL query window with multiple tabs at the top. The active tab contains an 'insert' statement into the 'Rates' table. The statement includes 12 rows of data with columns: MemberID, destinationID, PlanID, plan\_rating, and rateID. A red error message is visible, stating 'Invalid column name 'Memberid''. Below the query, a 'Results' tab is open, displaying a grid of 12 rows of data. The columns in the grid are MemberID, destinationID, PlanID, rated, and plan\_rating. The data matches the inserted rows. At the bottom of the window, a green checkmark indicates 'Query executed successfully.'

```

tripmanagementshare\S4IDGORR\jalit (62)*      travels_insert.sql ... S4IDGORR\jalit (57)      triplan_insert.sql... S4IDGORR\jalit (77)      rates_insert.sql - L...S4IDGORR\jalit (81)
[1] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (110, 24, 55, 2, 101);
[2] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (203, 25, 22, 2, 102);
[3] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (259, 57, 4, 2, 103);
[4] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (236, 66, 41, 4, 104);
[5] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (198, 27, 33, 2, 105);
[6] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (188, 90, 14, 2, 106);
[7] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (105, 62, 67, 4, 107);
[8] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (125, 75, 10, 4, 108);
[9] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (220, 96, 20, 3, 109);
[10] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (112, 57, 49, 5, 110);
[11] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (285, 65, 83, 4, 111);
[12] insert into Rates (Memberid, destinationid, Planid, plan_rating, rateid) values (128, 41, 44, 2, 112);

select * from rates;

```

	MemberID	destinationID	PlanID	rated	plan_rating
1	110	24	55	101	2
2	203	25	22	102	2
3	259	57	4	103	2
4	236	66	41	104	4
5	198	27	33	105	2
6	188	90	14	106	2
7	105	62	67	107	4
8	125	75	10	108	4
9	220	96	20	109	3
10	112	57	49	110	5
11	285	65	83	111	4
12	128	41	44	112	2

✓ Query executed successfully.

## 3.2 Creation of Views (Answer for Question c)

### 3.2.1 Employees-Hired (This is an Example)

**View 01:** This view returns the First Name, Last Name, and Date Hired of all Hospital Employees

```

CREATE VIEW Employees-Hired
AS SELECT First_Name,Last_Name,Date_Hired
FROM Hospital_Personnel, Employees
WHERE Person_ID=Emp_ID

```

## 3.3 Creation of SQL Queries (including questions and answers)

Now we give out the SQL Queries for each of 12 questions listed in Question d as follows:

**Query 01:** For each Job Class list all the staff members belonging to this class. (This is an example)

```
SELECT      job_class, emp_type, first_name, last_name
FROM        employees, hospital_personnel
WHERE       person_id = emp_id AND emp_type = 'S'
ORDER BY    job_class;
```

### Result of Query 01:

job_class	emp_type	first_name	last_name
full-time	S	John	Smith
full-time	S	Franklin	Wong
part-time	S	Joyce	English
full-time	S	Ramesh	Narayan

## 4. Conclusion

In this report we modified the EER diagram and relational schemas for Trip Share management Database according to the requirement of Phase II and III. We also give dependency diagram for each relational schema in database. Then we created tables for each relational schema and write the SQL statements for the views and queries listed in Question c and Question d.

## 5. Project Questions

- a) 1. The address is a multi-attribute attribute including street, city, state, country, and zip code. 2. The city, state, and country will have a unique id and a description to allow for name changes without having to update the entire database. 3. The comments, replies, and likes will have unique keys made up of multiple attributes. 4. When calculating the followers of the members, there should be some special apps or ways to count the number.
- b) One instance of the project that might warrant the need for subclass is the Page 5 of

6 Project for COSC 5360 Database Design—Phase I February 9, 2022 difference between a regular member and a preferred member, but I think that the difference can be determined dynamically rather than with a subclass. The travel destinations/attractions, however, have been divided into subclasses.

c) We believe this project needs a Relational DBMS because of the related parts to this project where the relationships will not change, but the data will continue to grow. There is a potential for many users and many transactions to handle and secure. It is also important to keep in mind the normalization of the data to keep redundancy to a minimum.