VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

"Jnana Sangama", Belgaum-590018

A Report On

"Psych My Trip"

Submitted by

N Aditya Bhat	**4NI19IS051**
Pannaga G R	**4NI19IS059**
Pradyoth P	**4NI19IS062**
Rakesh R	**4NI19IS074**

Under the Guidance of

Ashwini M.   **Suhas Bharadwaj R.**

Assistant Professor   Assistant Professor

Dept of IS&E   **Dept of IS&E**

NIE, Mysuru   **NIE, Mysuru**

The National Institute of Engineering   **Department of Information Science and Engineering**
Mysuru-570008   **NIE, Mysuru - 570008**

2020-2021

THE NATIONAL INSTITUTE OF ENGINEERING
MYSURU - 570008

Department of Information Science and Engineering

<u>CERTIFICATE</u>

Certifies that the project work titled "**Psych My Trip**" is a work carried out by **N ADITYA BHAT(4NI19IS051), PANNAGA G R(4NI19IS059), PRADYOTH P(4NI19IS062), and RAKESH R(4NI19IS074)** in partial fulfillment for the requirements of the fourth semester BE in Information Science & Engineering prescribed by The National Institute of Engineering, Autonomous Institution under Visvesvaraya Technological University, Belagavi. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated. The Project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the fourth semester in Database Management Systems Laboratory.

Signature of Guides   Signature of HOD   Signature of Principal

(Mr. Suhas Bharadwaj R)   (Dr. P Devaki)   (Dr. N V Raghavendra)

Name of the Examiner   Signature with Date

1.

2.

ABSTRACT OF THE PROJECT

This project illustrates the Database of a **Travel Agency** by the name Psych My Trip. **<u>Psych My Trip</u>** is a travel agency based in a tier 2 city that handles the travel requirements of their customers. This project is designed for the Agency to handle its Data storage requirements. We make use of **MySQL** to implement a relational database that will do the same. This Database consists of the required tables and attributes along with views that will meet the requirements of the Company.

When a customer enters the company, he will be treated by the office executive to whom he shall share his travel requirements. After understanding the customer's requirements, the Customer Executive recommends the existing packages. If the existing packages are not fulfilling the requirements of the customer, he/she will be referred to the travel planner who will create a new plan as per the customer's requirements. At the end of this, the customer gets the required package and can go on a trip without worrying about expenses and tickets which the company will manage. After many such Customers visit them, the Company will make profits when their income exceeds the office expenditure and employees' salaries. This profit shall be split among the Partners of the Company. The database holds all such information regarding the above-mentioned details.

Keywords: Travel and Tourism Management, Travel Packages.

ACKNOWLEDGEMENT

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Chapter 1:

<u>Introduction</u>

The Indian travel and tourism industry has achieved scale. Indian travelers took approximately 2 billion domestic and international trips in 2018, spending nearly $94 billion on transportation, lodging, and consumption during their travels. The travel and tourism industry is the seventh-highest contributor to GDP and has increased from 6.7% in 2013 to 9.4%, nearing developed market levels such as the UK's 10.5%. The market is expected to grow by 13% CAGR to $136 billion in 2021. According to the same source, the Majority of online travelers are from the metro and Tier-1 cities and Less than 5% come from Tier-2 cities. One more aspect where the average consumer from Tier-2 cities faces a problem as they are not keen on accessing online information is with managing their budget during their Trips. This is where Psych My Trip provides their Expertise to the average consumer from a Tier-2 city where they are located.

Psych My Trip is a Travel Agency based out of Mysuru, Karnataka. They are Mysuru's one-stop-travel solution that is transforming how Mysurians travel. Powered by young minds with a vision, they're helping their Customers go places with their services. From cabs, buses, trains, flights to hotels, homestays, holiday packages, and more – we cater to the ever-evolving needs of travelers across the spectrum by offering competitive, well-priced packages which are pocket-friendly and offer a semi-luxurious experience to their Customers.

Their almost two-decade-long journey is shaped by the vision and entrepreneurial spirit of every 'Go-Tripper'– who strives to make the experience of every traveler convenient, seamless, and distinctive. Their growth in a Tier-2 city such as Mysuru is a testimony of their Team's passion and dedication to providing the widest range of choices and finest travel solutions to their customers without compromising on Comfort and Budget.

1.1 Our Objective

This mini-project aims at developing a database management system of a Travel agency and demonstrates the benefits of using a database management system to maintain information about local businesses. It can be easily customized as per the requirements of the Travel agency.

Psych My Trip is a Tours & Travel Agency located in Mysuru, Karnataka. They deal in arranging domestic and international travel packages for their customers. The database management system for this agency includes Tables such as Employee, Customer, Travel Partners, TripPackages, and Expenses. They will hold all the details about the Agency in an organized manner. Access to this database will be available for the receptionist who will manage and update the database as per the Managers orders. The tables will then be used to access data as and when required by the Company for Internal Documentation using the SELECT Command and Views.

1.2 Purpose

The purpose of this project is to have a neat and clean approach to managing the data of the Travel Agency.

This project consists of different data tables such as Employee, Customer, Trip Packages, Expenses. The project is primarily focused on managing the working of these different data tables and facilitating the ease of managing the database of the travel agency.

The interconnectivity among different tables reduces the time to perform different operational tasks thus making data accessing faster and more accurate. Also, it gives a simple and clear logical view of company data.

1.3 Scope

In the age of technology, booking trip packages so as to avoid the hassle of planning a trip is becoming an easy choice for travelers. So travel agencies are becoming very essential in this modern age, but managing the database of the travel agencies is not an easy task. With the help of this project, we can manage the database of the company with ease and it is a lot more accurate and convenient. Once the details are fed into the system there is no need for various persons to deal with separate sections. Only one person is enough to maintain and alter all the reports and records.

Chapter 2:

<u>Proposed System</u>

Traditionally since their Inception, Psych My Trip used to make use of a manual Register to maintain this data. We proposed the usage of a Relational Database Management System in order to have a clean and accessible database of the Company's data. Having a database also opens up the possibility of using Queries to access the required data instead of looking at the tables and thinking of a solution. This also makes it easier to calculate the Profits and Total Income of the Company which will be very useful to keep track of the same and also during times when our Data needs to be provided to a third party, Say to an Auditor for Auditing and Accounting while filing the forms and furnishing Income Tax to the Government. Also, the Database can be edited very easily and there is no need to delete and re-enter the entire data when mistakes are made by the Administrator while entering the data. We can also alter the Fields as and when required and overall, such a database provides many helpful features. Having a Database also provides a lot of scope for future Improvements when the Company feels this system is Outdated.

2.1 System Administrator

The receptionist will have access to the database, only she can update the data upon her Managers orders. It consists of different tables that store the data of the company.
The company can access the data of employees, trip packages, customers, expenses, and partners.

It is more convenient because we can alter, update and add the data accordingly.
In a traditional method updating the data once fed is a difficult task but in a Database management system, one can easily update or alter the data anytime.

2.2 System Features

- The System Administrator will manage the Database.
- The Employees of Psych My Trip will work together to design the Trip Packages.
- The Managers will oversee their Employees.
- The Partners will hire the Employees, oversee the functioning of the Company and release the necessary funds if needed.
- The Customer will visit the Office and the Customer Executive will assist the Customers with their needs.
- Once the Customer chooses a Package, Travel Agents, Travel Manager, and Travel Planner will work together and manage the bookings and requirements of the trip.
- The Customer will then enjoy his vacation and if they are okay with it, they will provide Feedback on the employees they interacted with at the Company.

Advantages of the Proposed System:

- Gives accurate information
- Simplifies the manual work
- It minimizes the documentation related to work
- Provides up to date information
- Friendly Environment by providing warning messages.
- Only the essential information can be viewed separately.
- Reduces the possibility of Human Errors.

2.3 Operating Environment

Since we are only implementing the Database part, the regular Minimum Requirements for installing MySQL should suffice. But as per the operating environments of the Systems being used to implement this database project right now, we are providing the following requirements based on that.

Software requirements:

Operating System: Windows 10 / Mac OS 11 (Big Sur)

Programming Language: SQL

Drivers: Drivers required for the smooth functioning of the system

Tools: MySQL Server, MySQL Workbench

Hardware Requirements :

Processor: 5nd gen Intel Core i3 or Higher

Memory: 4 GB RAM or Above

Any other devices: Functional Monitor/Projector, Mouse, and a Keyboard.

Chapter 3:

<u>Database Implementation</u>

Database implementation is the process of installation of database software, configuration, customization, running, testing, integrating with applications, and training the users.

Our database has been implemented using MySQL, an open-source relational database management system. This was done using various SQL statements like DML(Data Manipulation Language), DDL(Data Definition Language), DCL(Data Control Language), etc.

```
[mysql> show tables;
+----------------------+
| Tables_in_psychmytrip |
+----------------------+
| Customer             |
| Employee             |
| empsal               |
| Expenses             |
| officeexp            |
| Partners             |
| profdisplay          |
| TripPackages         |
+----------------------+
8 rows in set (0.00 sec)
```

<u>Fig 3.1</u> Query to show the tables and views present in the project database.

We make use of the show tables command to display all tables in the current database. This is illustrated for our project database in Fig 3.1.

3.1 Structure of Tables

```
[mysql> desc TripPackages;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| P_ID           | int         | NO   | PRI | NULL    |       |
| P_Name         | varchar(20) | YES  |     | NULL    |       |
| Destination    | varchar(20) | YES  |     | NULL    |       |
| Number_of_Days | int         | YES  |     | NULL    |       |
| Price          | int         | YES  |     | NULL    |       |
| Profit         | int         | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
6 rows in set (0.01 sec)
```

```
[mysql> desc Customer;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Cust_No   | int         | NO   | PRI | NULL    |       |
| Cust_Name | varchar(20) | YES  |     | NULL    |       |
| P_ID      | int         | YES  | MUL | NULL    |       |
| Emp_ID    | int         | YES  | MUL | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

```
[mysql> desc Employee;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Emp_ID      | int         | NO   | PRI | NULL    |       |
| Emp_Name    | varchar(20) | YES  |     | NULL    |       |
| Age         | int         | YES  |     | NULL    |       |
| Salary      | int         | YES  |     | NULL    |       |
| Designation | varchar(20) | YES  |     | NULL    |       |
| Date_of_Join| date        | YES  |     | NULL    |       |
| Manager_ID  | int         | YES  |     | NULL    |       |
| Part_No     | int         | YES  | MUL | NULL    |       |
| Emp_Rating  | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
9 rows in set (0.00 sec)
```

```
[mysql> desc Expenses;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| Sl_no        | int         | YES  |     | NULL    |       |
| Exp_name     | varchar(20) | YES  |     | NULL    |       |
| Cost_per_year| int         | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

```
[mysql> desc Partners;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Part_No    | int         | NO   | PRI | NULL    |       |
| Part_Name  | varchar(20) | YES  |     | NULL    |       |
| Part_Stake | int         | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

Fig 3.1 Query to describe the table structures.

The above Fig 3.1 is self-explanatory regarding the usage of desc table_name command i.e. to get the structure of the tables such as TripPackages, Customers, etc used in this database.

3.2 Contents of Tables

```
[mysql> select * from Expenses;
+-------+-------------+---------------+
| Sl_no | Exp_name    | Cost_per_year |
+-------+-------------+---------------+
|     1 | Electricity |          6000 |
|     2 | Water Bill  |          1000 |
|     3 | WiFi        |          4800 |
|     4 | Rent        |         80000 |
|     5 | Food&misc   |        133333 |
|     6 | Tax         |         33333 |
|     7 | Phone Bill  |          2000 |
|     8 | New items   |         33333 |
+-------+-------------+---------------+
```

```
[mysql> select * from Partners;
+---------+-----------+------------+
| Part_No | Part_Name | Part_Stake |
+---------+-----------+------------+
|       1 | Sharma    |         50 |
|       2 | Rohit     |         50 |
+---------+-----------+------------+
2 rows in set (0.00 sec)
```

```
[mysql> select * from Employee;
+--------+-----------+-----+--------+-------------------+-------------+------------+---------+------------+
| Emp_ID | Emp_Name  | Age | Salary | Designation       | Date_of_Join | Manager_ID | Part_No | Emp_Rating |
+--------+-----------+-----+--------+-------------------+-------------+------------+---------+------------+
|      1 | Akash     |  45 | 214286 | Manager           | 2005-05-10  |          1 |       1 |          5 |
|      2 | Ramesh    |  42 | 214286 | Manager           | 2005-05-10  |          2 |       1 |          5 |
|      3 | Suresh    |  40 | 214286 | Manager           | 2005-05-10  |          3 |       1 |          5 |
|      4 | Ganesh    |  35 |  44000 | Security          | 2009-09-12  |          1 |       1 |          5 |
|      5 | Govinda   |  30 |  71200 | Travel Agent      | 2010-08-22  |          2 |       1 |          4 |
|      6 | Sebastian |  27 |  70400 | Travel Agent      | 2015-06-30  |          3 |       1 |          3 |
|      7 | Anvitha   |  25 |  90000 | Receptionist      | 2017-06-30  |          1 |       2 |          4 |
|      8 | Suzie     |  29 | 150000 | Trip Planner      | 2018-04-06  |          2 |       2 |          4 |
|      9 | Arun      |  22 | 124286 | Trip Manager      | 2020-01-25  |          1 |       2 |          3 |
|     10 | Ansari    |  32 | 175714 | Customer Executive| 2013-02-19  |          3 |       2 |          5 |
|     11 | Angel     |  31 | 171429 | Customer Executive| 2014-04-19  |          1 |       2 |          5 |
|     12 | Bharath   |  28 | 167143 | Customer Executive| 2019-04-22  |          2 |       2 |          3 |
+--------+-----------+-----+--------+-------------------+-------------+------------+---------+------------+
12 rows in set (0.00 sec)
```

```
[mysql> select * from Customer;
+---------+------------+------+--------+
| Cust_No | Cust_Name  | P_ID | Emp_ID |
+---------+------------+------+--------+
|       1 | Manjesh    |   16 |     12 |
|       2 | Yadava     |   18 |     11 |
|       3 | Kumar      |    7 |     10 |
|       4 | Joshi      |   14 |     12 |
|       5 | Nidhima    |    5 |     11 |
|       6 | Diya       |   12 |     10 |
|       7 | Eshaan     |   15 |     10 |
|       8 | Jitendra   |    2 |     11 |
|       9 | Madhushree |   17 |     12 |
|      10 | Binod      |   11 |     10 |
|      11 | Vaishnavi  |   13 |     12 |
|      12 | Rakshith   |   13 |     11 |
|      13 | Hrishikesh |    3 |     10 |
|      14 | Chandan    |    9 |     11 |
|      15 | Naveen     |    6 |     12 |
|      16 | Rajesh     |    1 |     10 |
|      17 | Sharath    |    6 |     11 |
|      18 | Pratima    |    7 |     12 |
|      19 | Raghavendra|   15 |     10 |
|      20 | Adeep      |   16 |     11 |
|      21 | Holla      |    4 |     12 |
|      22 | Amaan      |    7 |     10 |
|      23 | Arya       |    4 |     11 |
|      24 | Srushti    |   12 |     12 |
|      25 | Bhat       |   18 |     10 |
|      26 | Sindhu     |    8 |     11 |
|      27 | Bindu      |    9 |     12 |
|      28 | Mary       |   10 |     10 |
|      29 | Goku       |   11 |     11 |
|      30 | Vegeta     |   14 |     12 |
|      31 | Sujan      |    4 |     10 |
|      32 | Neha       |    3 |     11 |
+---------+------------+------+--------+
32 rows in set (0.00 sec)
```

```
[mysql> select * from TripPackages;
+------+-----------------+-----------------+----------------+--------+--------+
| P_ID | P_Name          | Destination     | Number_of_Days | Price  | Profit |
+------+-----------------+-----------------+----------------+--------+--------+
|    1 | 4P:Dandeli      | Dandeli         |              5 |  60000 |  20000 |
|    2 | 6P:Dandeli      | Dandeli         |              5 |  84000 |  30000 |
|    3 | Honeymoon:Paris | Paris           |              9 | 480000 | 180000 |
|    4 | Honeymoon:Andaman | Andaman&Nicobar |            9 | 300000 | 110000 |
|    5 | Honeymoon:Bali  | Bali            |              9 | 400000 | 190000 |
|    6 | Honeymoon:Maldives | Maldives      |              9 | 340000 | 160000 |
|    7 | Honeymoon:Monaco | Monaco         |              9 | 500000 | 230000 |
|    8 | 2P:Manali       | Manali          |              6 |  50000 |  10000 |
|    9 | 2P:Kedarnath    | Kedarnath       |              5 |  40000 |   9000 |
|   10 | 2P:Mumbai       | Mumbai          |              5 |  70000 |  14000 |
|   11 | 2P:Delhi        | Delhi           |              5 |  65000 |  15000 |
|   12 | 10P:HimalayaTrek | Himachal Pradesh |           10 | 800000 | 300000 |
|   13 | 2P:HimalayaTrek | Himachal Pradesh |            10 | 200000 |  50000 |
|   14 | 2P:Goa          | Goa             |              6 |  18000 |   4000 |
|   15 | 4P:Shirdi       | Shirdi          |              4 |  20000 |   5000 |
|   16 | 2P:Ooty         | Ooty            |              3 |  10000 |   3000 |
|   17 | 2P:Kodaikanal   | Kodaikanal      |              4 |  16000 |   5000 |
|   18 | 2P:MysuruLocalTour | Mysuru       |              3 |   8000 |   4000 |
+------+-----------------+-----------------+----------------+--------+--------+
18 rows in set (0.00 sec)
```

Fig 3.2 Query to show the table contents.

The above Snapshots under Fig 3.2 are self-explanatory regarding the usage of select
* from table_name command to get the contents(tuples) of the tables such as TripPackages,
Customers, etc used in this database.

3.3 Structure of Views

```
[mysql> desc empsal;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| Total_Sal_2020 | decimal(32,0) | YES  |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
1 row in set (0.01 sec)
```

```
[mysql> desc officeexp;
+--------------------+--------------+------+-----+---------+-------+
| Field              | Type         | Null | Key | Default | Extra |
+--------------------+--------------+------+-----+---------+-------+
| Total_OfficeExp_2020 | decimal(32,0) | YES  |     | NULL    |       |
+--------------------+--------------+------+-----+---------+-------+
1 row in set (0.01 sec)
```

```
[mysql> desc profdisplay;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| P_Name       | varchar(20) | YES  |     | NULL    |       |
| PackageCount | bigint      | NO   |     | 0       |       |
| Price        | int         | YES  |     | NULL    |       |
| Profit       | int         | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

<u>Fig 3.3</u> Query to describe the view structure.

The above Fig 3.3 is self-explanatory regarding the usage of desc view_name command i.e. to get the structure of the views such as empsal, profdisplay, and officeexp used in this database.

3.4 Contents of Views

```
[mysql> select * from profdisplay;
+--------------------+--------------+--------+--------+
| P_Name             | PackageCount | Price  | Profit |
+--------------------+--------------+--------+--------+
| 4P:Dandeli         |            1 |  60000 |  20000 |
| 6P:Dandeli         |            1 |  84000 |  30000 |
| Honeymoon:Paris    |            2 | 480000 | 180000 |
| Honeymoon:Andaman  |            3 | 300000 | 110000 |
| Honeymoon:Bali     |            1 | 400000 | 190000 |
| Honeymoon:Maldives |            2 | 340000 | 160000 |
| Honeymoon:Monaco   |            3 | 500000 | 230000 |
| 2P:Manali          |            1 |  50000 |  10000 |
| 2P:Kedarnath       |            2 |  40000 |   9000 |
| 2P:Mumbai          |            1 |  70000 |  14000 |
| 2P:Delhi           |            2 |  65000 |  15000 |
| 10P:HimalayaTrek   |            2 | 800000 | 300000 |
| 2P:HimalayaTrek    |            2 | 200000 |  50000 |
| 2P:Goa             |            2 |  18000 |   4000 |
| 4P:Shirdi          |            2 |  20000 |   5000 |
| 2P:Ooty            |            2 |  10000 |   3000 |
| 2P:Kodaikanal      |            1 |  16000 |   5000 |
| 2P:MysuruLocalTour |            2 |   8000 |   4000 |
+--------------------+--------------+--------+--------+
18 rows in set (0.00 sec)
```

```
[mysql> select * from empsal;
+----------------+
| Total_Sal_2020 |
+----------------+
|        1707030 |
+----------------+
1 row in set (0.00 sec)
```

```
[mysql> select * from officeexp;
+--------------------+
| Total_OfficeExp_2020 |
+--------------------+
|             293799 |
+--------------------+
1 row in set (0.01 sec)
```

Fig 3.4 Query to contents of the views.

The above Fig 3.4 is self-explanatory regarding the usage of select * from view_name command i.e. to get the contents(tuples) of the views such as empsal, profdisplay etc used in this database.
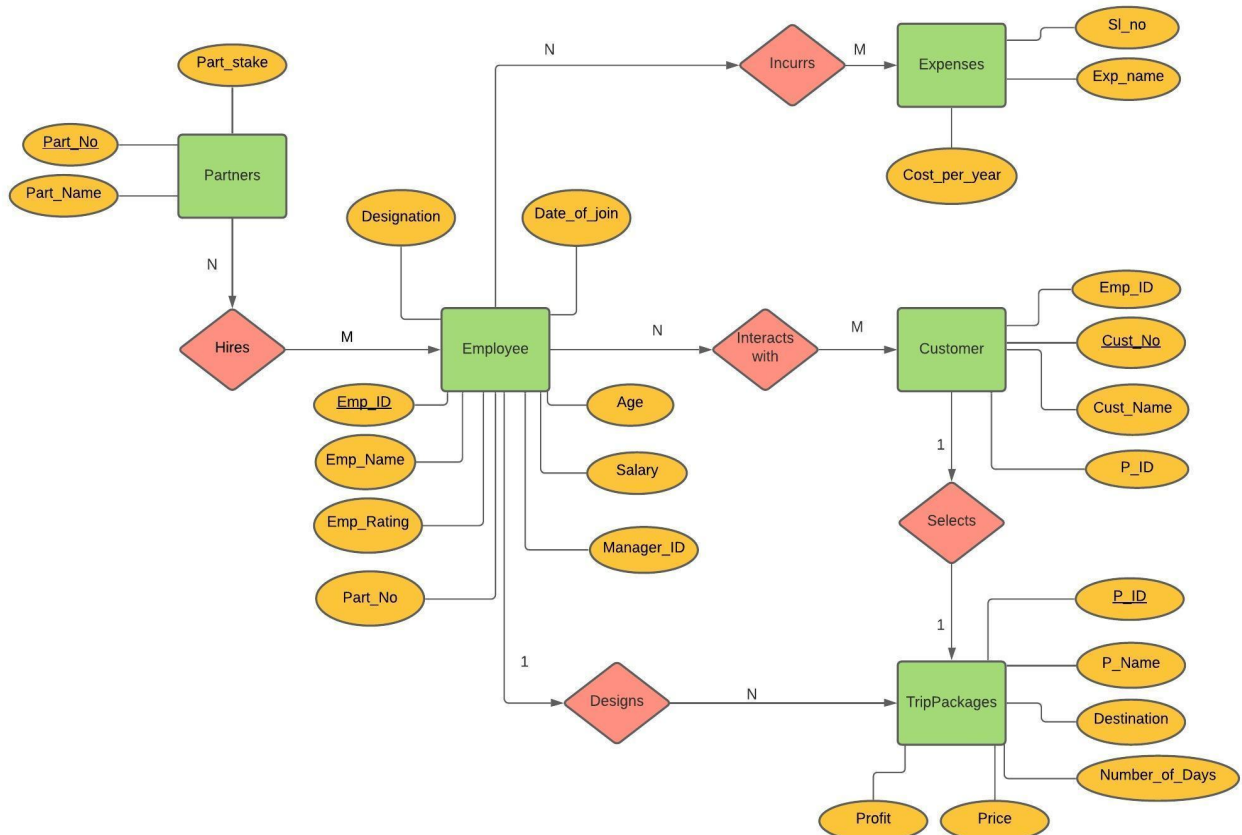
3.5 Entity Relationship Diagram

Fig 3.5 ER Diagram for Psych My Trip Database

The ER Diagram for the Psych My Trip Database is Fig 3.5. Here we have Five Entity tables(Partners, Employee, Customer, TripPackages, Expenses). Each entity table has its own set of attributes. The entities are related as follows:

- The partners hire the employees.
- One of the employees designs the trip packages.
- The employees interact with the customers to book packages for them.
- A customer selects a trip package from the list of trip packages.
- Employees incur expenses while working at the company

Given below are the primary and foreign keys:

➔ Primary keys: Partners(Part_No), Employee(Emp_ID), TripPackages(P_ID), Customer(Cust_ID).

➔ Foreign keys: Customer(Emp_ID,P_ID), Employee(Part_No).
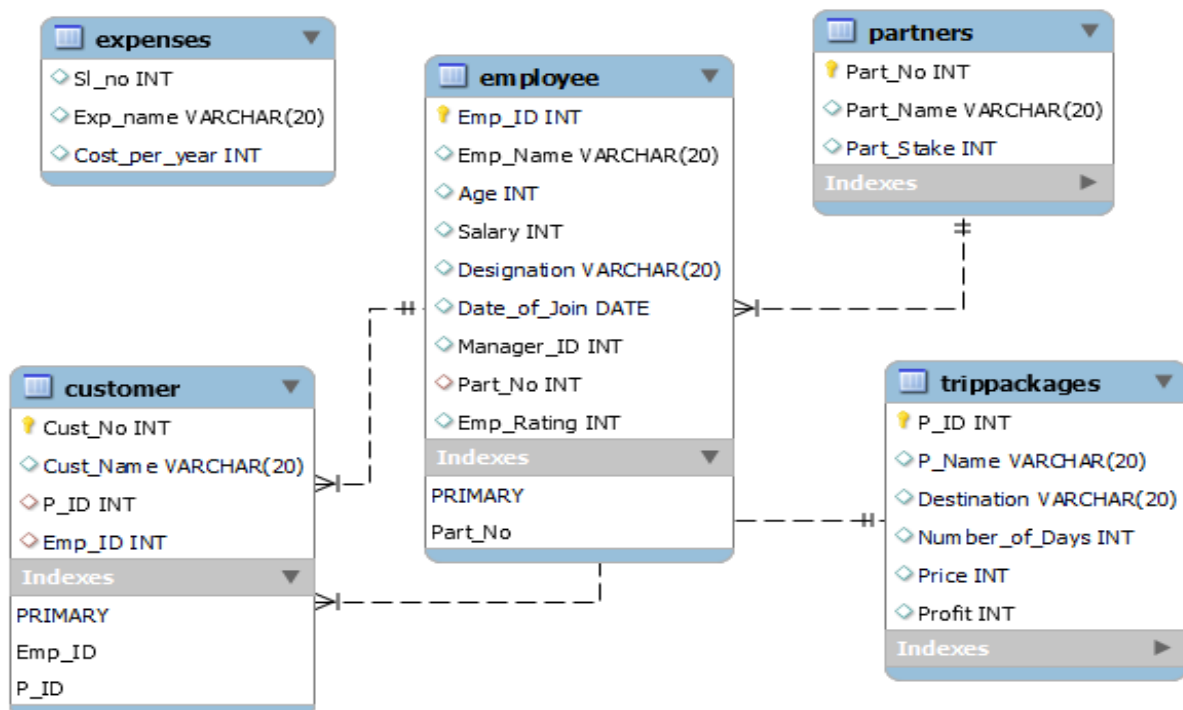
3.6 Relational Schema

Fig 3.6 Relational Schema for Psych My Trip Database

Fig 3.6 shows the Relational Schema diagram for Psych My Trip Database. It provides a pictorial description of how the Tables are related to each other and is self-explanatory.

3.7 Simple Queries

```
[mysql> #Display the sum of the salaries of the Employees.
[mysql> select sum(salary) from employee;
+-------------+
| sum(salary) |
+-------------+
|     1707030 |
+-------------+
1 row in set (0.01 sec)
```

```
mysql> # Display the names of the Employees who are Managers.
mysql>  select Emp_Name from employee where Emp_ID=Manager_ID;
+----------+
| Emp_Name |
+----------+
| Akash    |
| Ramesh   |
| Suresh   |
+----------+
3 rows in set (0.00 sec)
```

```
[mysql> #Display all the Names, Designations of those employees who were hired by the Partner Sharma.
[mysql> select Emp_Name as 'Name of the Employee',Designation from Employee where part_no=(select Part_no from Partners where Part_Name='Sharma');
+----------------------+--------------+
| Name of the Employee | Designation  |
+----------------------+--------------+
| Akash                | Manager      |
| Ramesh               | Manager      |
| Suresh               | Manager      |
| Ganesh               | Security     |
| Govinda              | Travel Agent |
| Sebastian            | Travel Agent |
+----------------------+--------------+
6 rows in set (0.00 sec)
```

```
[mysql> #Display the name of the package opted by Customer whose name is Sindhu.
[mysql> select P_name from trippackages where p_id=(select p_id from customer where cust_name='Sindhu');
+-----------+
| P_name    |
+-----------+
| 2P:Manali |
+-----------+
1 row in set (0.01 sec)
```

```
[mysql> #Display all the Office Expenses in the descending order.
[mysql> select Exp_name as 'Name of the Expense', Cost_per_year as 'Cost per Year' from Expenses order by cost_per_year desc;
+---------------------+---------------+
| Name of the Expense | Cost per Year |
+---------------------+---------------+
| Food&misc           |        133333 |
| Rent                |         80000 |
| Tax                 |         33333 |
| New items           |         33333 |
| Electricity         |          6000 |
| WiFi                |          4800 |
| Phone Bill          |          2000 |
| Water Bill          |          1000 |
+---------------------+---------------+
8 rows in set (0.01 sec)
```

```
[mysql> #Display the profit made by the Company from Customer Eshaan's Trip.
[mysql> select profit from trippackages where p_id=(select p_id from customer where cust_name='eshaan');
+--------+
| profit |
+--------+
|   5000 |
+--------+
1 row in set (0.01 sec)
```

```
mysql> #Display the details of all the customers who have opted for the Trip Package 'Honeymoon:Monaco'.
[mysql> select * from customer where P_ID=(select P_ID from TripPackages where P_name='Honeymoon:Monaco');
+---------+-----------+------+--------+
| Cust_No | Cust_Name | P_ID | Emp_ID |
+---------+-----------+------+--------+
|       3 | Kumar     |    7 |     10 |
|      18 | Pratima   |    7 |     12 |
|      22 | Amaan     |    7 |     10 |
+---------+-----------+------+--------+
3 rows in set (0.00 sec)
```

```
mysql> # Display the Price and Profit made from the Packages which were sold to Three Customers.
[mysql> select P_Name as 'Package Name', Price,Profit from profdisplay where PackageCount=3;
+-------------------+--------+--------+
| Package Name      | Price  | Profit |
+-------------------+--------+--------+
| Honeymoon:Andaman | 300000 | 110000 |
| Honeymoon:Monaco  | 500000 | 230000 |
+-------------------+--------+--------+
2 rows in set (0.02 sec)
```

```
mysql> #Display the amount the Company had to bear on each Package which was sold to Two Customers.
[mysql> select P_name as 'Package Name',Price-Profit as 'Trip Expenses' from profdisplay where PackageCount=2;
+--------------------+---------------+
| Package Name       | Trip Expenses |
+--------------------+---------------+
| Honeymoon:Paris    |        300000 |
| Honeymoon:Maldives |        180000 |
| 2P:Kedarnath       |         31000 |
| 2P:Delhi           |         50000 |
| 10P:HimalayaTrek   |        500000 |
| 2P:HimalayaTrek    |        150000 |
| 2P:Goa             |         14000 |
| 4P:Shirdi          |         15000 |
| 2P:Ooty            |          7000 |
| 2P:MysuruLocalTour |          4000 |
+--------------------+---------------+
10 rows in set (0.00 sec)
```

Fig 3.7 Snapshots of a few simple queries

3.8 Complex Queries

```
mysql> #Display the Partner who hired the Employee who assisted Eshaan with his Travel Requirements.
mysql>  select Part_Name as 'Partner who hired the Employee who assisted Eshaan',Emp_Name as 'Employee who assisted Eshaan' from Employee,Customer,Partners where Employee.Emp_ID=
Customer.Emp_ID and Partners.Part_No=Employee.Part_No and Customer.Cust_Name='Eshaan';
+----------------------------------------------------+------------------------------+
| Partner who hired the Employee who assisted Eshaan | Employee who assisted Eshaan |
+----------------------------------------------------+------------------------------+
| Rohit                                              | Ansari                       |
+----------------------------------------------------+------------------------------+
1 row in set (0.01 sec)
```

```
mysql> #Display the names and designation  of all employees with the same designation as ansari
mysql> select emp_name,designation from employee where designation=(select designation from employee where emp_name='ansari');
+----------+--------------------+
| emp_name | designation        |
+----------+--------------------+
| Ansari   | Customer Executive |
| Angel    | Customer Executive |
| Bharath  | Customer Executive |
+----------+--------------------+
3 rows in set (0.00 sec)
```

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```
mysql> #display the employees who earn maximum salary in each designation , sort in the desc order
mysql> select emp_name,max(salary),designation from employee group by designation order by salary desc;
+----------+-------------+-------------------+
| emp_name | max(salary) | designation       |
+----------+-------------+-------------------+
| Akash    |      214286 | Manager           |
| Ansari   |      175714 | Customer Executive|
| Suzie    |      150000 | Trip Planner      |
| Arun     |      124286 | Trip Manager      |
| Anvitha  |       90000 | Receptionist      |
| Govinda  |       71200 | Travel Agent      |
| Ganesh   |       44000 | Security          |
+----------+-------------+-------------------+
7 rows in set (0.01 sec)
```

```
mysql> #Display the names of the customer along with the packages they have opted and the employee who is assigned to them.
mysql> select e.cust_name as Customer,p.P_name as 'Package name',d.emp_name as 'Employee Handling the customer'  from customer e,trippackages p,employee as d where e.P_id=p.
P_id and e.emp_id=d.emp_id  order by e.cust_name ;
+------------+----------------------+--------------------------------+
| Customer   | Package name         | Employee Handling the customer |
+------------+----------------------+--------------------------------+
| Adeep      | 2P:Ooty              | Angel                          |
| Amaan      | Honeymoon:Monaco     | Ansari                         |
| Arya       | Honeymoon:Andaman    | Angel                          |
| Bhat       | 2P:MysuruLocalTour   | Ansari                         |
| Bindu      | 2P:Kedarnath         | Bharath                        |
| Binod      | 2P:Delhi             | Ansari                         |
| Chandan    | 2P:Kedarnath         | Angel                          |
| Diya       | 10P:HimalayaTrek     | Ansari                         |
| Eshaan     | 4P:Shirdi            | Ansari                         |
| Goku       | 2P:Delhi             | Angel                          |
| Holla      | Honeymoon:Andaman    | Bharath                        |
| Hrishikesh | Honeymoon:Paris      | Ansari                         |
| Jitendra   | 6P:Dandeli           | Angel                          |
| Joshi      | 2P:Goa               | Bharath                        |
| Kumar      | Honeymoon:Monaco     | Ansari                         |
| Madhushree | 2P:Kodaikanal        | Bharath                        |
| Manjesh    | 2P:Ooty              | Bharath                        |
| Mary       | 2P:Mumbai            | Ansari                         |
| Naveen     | Honeymoon:Maldives   | Bharath                        |
| Neha       | Honeymoon:Paris      | Angel                          |
| Nidhima    | Honeymoon:Bali       | Angel                          |
| Pratima    | Honeymoon:Monaco     | Bharath                        |
| Raghavendra| 4P:Shirdi            | Ansari                         |
| Rajesh     | 4P:Dandeli           | Ansari                         |
| Rakshith   | 2P:HimalayaTrek      | Angel                          |
| Sharath    | Honeymoon:Maldives   | Angel                          |
| Sindhu     | 2P:Manali            | Angel                          |
| Srushti    | 10P:HimalayaTrek     | Bharath                        |
| Sujan      | Honeymoon:Andaman    | Ansari                         |
| Vaishnavi  | 2P:HimalayaTrek      | Bharath                        |
| Vegeta     | 2P:Goa               | Bharath                        |
| Yadava     | 2P:MysuruLocalTour   | Angel                          |
+------------+----------------------+--------------------------------+
32 rows in set (0.00 sec)
```

```
mysql> #Display the names of each Employee along with his/her Manager's Name.
mysql> select m.Emp_Name as 'Employee Name', b.Emp_name as 'Manager Name' from (Employee as m) join (Employee as b) on (b.Emp_ID=m.Manager_ID) order by b.Emp_name;
+---------------+--------------+
| Employee Name | Manager Name |
+---------------+--------------+
| Akash         | Akash        |
| Ganesh        | Akash        |
| Anvitha       | Akash        |
| Arun          | Akash        |
| Angel         | Akash        |
| Ramesh        | Ramesh       |
| Govinda       | Ramesh       |
| Suzie         | Ramesh       |
| Bharath       | Ramesh       |
| Suresh        | Suresh       |
| Sebastian     | Suresh       |
| Ansari        | Suresh       |
+---------------+--------------+
12 rows in set (0.01 sec)
```

Fig 3.8 Snapshots of few complex queries

<u>Conclusion</u>

This database was successfully created and has stored all the details regarding travel packages, employees at the company, our customer details, annual expenses, and partners of the company. The database also contains certain Views created using certain commands which also help the company to have real-time access to the frequently required details. The database was tested very well and the errors were properly debugged. Testing also concluded that the performance of the database is satisfactory. All the necessary output is generated. This system thus provides an easy way to store all the data related to the agency. This system also provides a way to find out specific details required using SQL Commands.

Further enhancements can be made to the project so that the system functions in a more attractive and useful manner than the present one and an online ticketing system is also suggested in Chapter 4. Certain simple and complex commands were also tested and the snapshots of the same are uploaded in this Report under Chapter 3. It is concluded that the application works well and satisfies the needs. The application is tested very well and errors are properly debugged.

Further Enhancements

Currently, Psych My Trip operates as a small Company in a Tier 2 City with only one branch. There is a lot of scope in the Travels area and hence, there is a high chance that Psych My Trip will expand their business in the coming days. We are proposing some ideas over here through which they can expand and develop their business in the future.

Current Scenario

Before we do that, let us review the current situation of the business. Psych My Trip is operating as a small business in Mysuru which deals with managing the Travel needs of their Customers. Currently, there are 12 Employees and 2 Partners in the Company.

We have already mentioned previously that the Majority of online travelers are from the metro and Tier-1 cities and Less than 5% come from Tier-2 cities. Hence, the current Business Model of Psych My Trip is working perfectly for this situation.

Future Enhancements to Improve the Project

Considering the immense scope in the Travel Industry and Psych My Trip's work, it will attract numerous investors who will Partner in the future to expand the business. They can start operating in different cities and to manage all of them, the Database can be linked to a Frontend with an Administrator page which allows them to Manage, Enter, View, and Manipulate the data from the website itself.

One more possibility is expanding to nearby Tier 1 Cities such as Bengaluru. A website can be set up through which customers can opt-in on packages online without having to visit our Offices. We will also have to set up a Customer Care section and Technical team to maintain the same. We will have to add more Tables and Attributes and link more Entities in order to have a better and more powerful Database that can handle online ticket booking.

After the creation of the database, we will have to create a frontend using HTML, CSS, Javascript and use frameworks and tools like PHPMyAdmin and link the Backend and

the Frontend. This way we will be able to have a way for our customers to book tickets online from the comfort of their homes.

These are a few Enhancements that can be implemented in the future to facilitate the Business Model of the Company. There are other aspects which come into play over here as well, whether the multiple variants of the coronavirus will continue to wreak havoc on Earth, the situation on Earth say 5 years later, the traveling trends say 5 years later, those are the deciding factors which will come into action concerning the future Business of the company and they will ultimately decide if the Future Enhancements listed here will be Implemented or not.

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