SVKM's NMIMS

School of Technology Management & Engineering, Navi Mumbai

A.Y. 2023 - 24

Course: Database Management Systems

Project Report

| Program | B.tech Computer Engineering | |
|--------------------------------|-----------------------------|-------------------|
| Semester | 4 | |
| Name of the Project: | Gym Database M | lanagement System |
| _ | | |
| Details of Project Members | | |
| Batch | Roll No. | Name |
| B2 | A099 | Aarushi Jain |
| Date of Submission: 02-04-2024 | | |

Contribution of each project Members:

| Roll No. | Name: | Contribution |
|----------|--------------|--------------|
| A099 | Aarushi Jain | Full Project |

Github link of your project: https://github.com/aarushij978/DBMS-project

Note:

- 1. Create a readme file if you have multiple files
- 2. All files must be properly named (Example:R004_DBMSProject)
- 3. Submit all relevant files of your work (Report, all SQL files, Any other files)
- 4. Plagiarism is highly discouraged (Your report will be checked for plagiarism)

Rubrics for the Project evaluation:

| First phase of evaluation: | 10 marks |
|--|----------|
| Innovative Ideas (5 Marks) | |
| Design and Partial implementation (5 Marks) | |
| Final phase of evaluation | 10 marks |
| Implementation, presentation and viva, Self- | |
| Learning and Learning Beyond classroom | |



PROJECT REPORT

GYM DATABASE MANAGEMENT SYSTEM

Ву

Aarushi Jain, Roll No.: A099

Course: DBMS

AY:2023-24

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I. Storyline

FlexFit is a modern gym aiming to provide top-notch fitness services to its members. It's a vibrant hub for individuals of all fitness levels to come together and achieve their health goals with state-of-the-art equipment, expert trainers, and a supportive atmosphere. To streamline operations and enhance member experience, FlexFit plans to implement a comprehensive gym management system. The system, named FlexFit Gym Management System, will efficiently handle membership plans, member records, class schedules, and various administrative tasks.

II. Components of Database Design

Entities: plans, Members, BasicPlan, StandardPlan, PremiumPlan, CouplePlan, StudentPlan, Trainers, Classes, Payments

1. plans:

| plans |
|---------------|
| <u>PlanID</u> |
| PlanName |

- Cardinality: 5

2. Members:

| Members |
|-----------|
| MemberID |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |

- Cardinality: 50

3. Trainers:

| Members |
|------------------|
| <u>TrainerID</u> |
| Name |
| PhoneNo |
| PlanName |
| PlanID |
| Specialization |
| Age |
| Gender |

- Cardinality: 9

4. Classes:

| Classes |
|-----------|
| ClassID |
| ClassName |
| TrainerID |
| Duration |

- Cardinality: 9

5. Payments:

| Payments |
|---------------|
| PaymentID |
| MemberID |
| PaymentDate |
| PaymentStatus |
| PlanID |

- Cardinality: 50

6. BasicPlan:

| Members |
|-----------------|
| <u>MemberID</u> |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |

- Cardinality: 20

7. StandardPlan:

| Members |
|-----------|
| MemberID |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |

- Cardinality: 13

8. PremiumPlan:

| Members |
|-----------|
| MemberID |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |

- Cardinality: 12

9. CouplePlan:

| Members |
|---------------|
| MemberID |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |
| PartnerName |
| PartnerAge |
| PartnerGender |

- Cardinality: 1

10. StudentPlan:

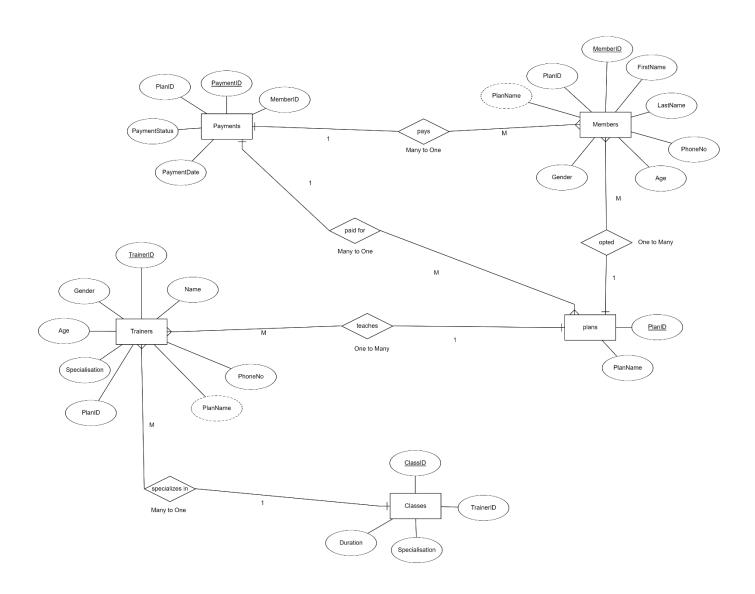
| Members |
|-----------|
| MemberID |
| FirstName |
| LastName |
| PhoneNo |
| Age |
| Gender |
| PlanName |
| PlanID |

- Cardinality: 4

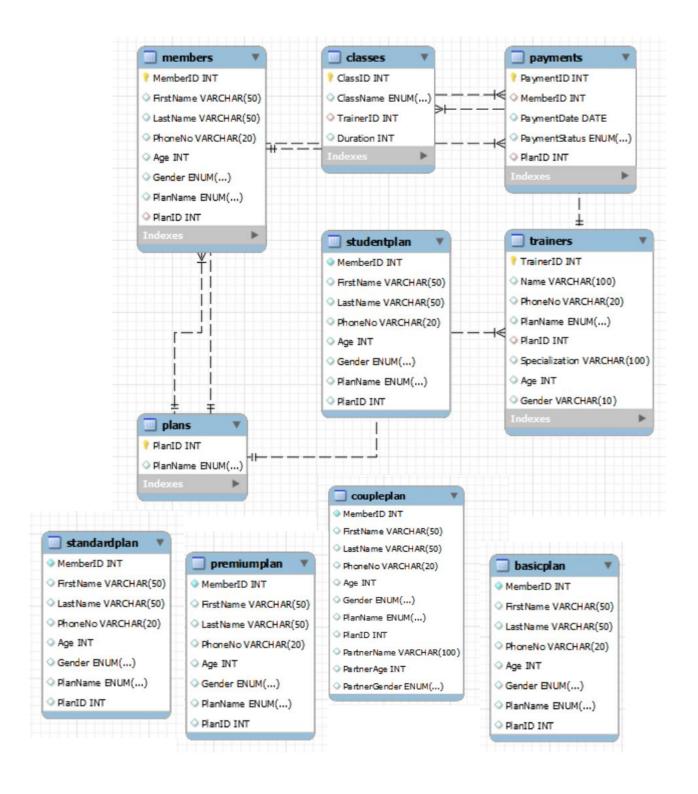
Relationships:

- 1. Members-Plans (One-to-Many):
 - Each member can have only one plan, but each plan can have multiple members.
- 2. Trainers Plans (One-to-Many):
 - Each trainer can be associated with only one plan, but each plan can have multiple trainers.
- 3. Classes Trainers (Many-to-One):
 - Each class is conducted by one trainer, but a trainer can conduct multiple classes.
- 4. Payments Members (Many-to-One):
 - Each payment is made by one member, but a member can have multiple payments.
- 5. Payments Plans (Many-to-One):
 - Each payment is associated with one plan, but a plan can have multiple payments.

III. Entity Relationship Diagram



IV. Relational Model



V. Normalization

1. plans:

- This table meets all normal forms as it has:
 - o Single valued attributes (1NF).
 - o Primary key (PlanID) that uniquely identifies each plan (1NF).
 - o No partial dependencies on the primary key (2NF).
 - o No transitive dependencies (3NF).
 - The determinant (PlanID) is the whole primary key itself (BCNF).

2. Members:

- o Single valued attributes (1NF).
- o Primary key (PlanID) that uniquely identifies each plan (1NF).
- o No partial dependencies on the primary key (2NF).

3. Classes:

- o Single valued attributes (1NF).
- o Primary key (PlanID) that uniquely identifies each plan (1NF).
- o No partial dependencies on the primary key (2NF).

4. Trainers:

- o Single valued attributes (1NF).
- o Primary key (PlanID) that uniquely identifies each plan (1NF).
- o No partial dependencies on the primary key (2NF).
- o No transitive dependencies (3NF).

5. Payments:

- o Single valued attributes (1NF).
- o Primary key (PlanID) that uniquely identifies each plan (1NF).
- o No partial dependencies on the primary key (2NF).
- No transitive dependencies (3NF).

VI. SQL Queries

Creating the tables and Populating the tables:

```
create database FlexFit;
use FlexFit;
show databases;
CREATE TABLE plans (
  PlanID INT PRIMARY KEY AUTO_INCREMENT,
  PlanName ENUM('Basic', 'Standard', 'Premium', 'Couple', 'Student')
);
INSERT INTO plans (PlanName) VALUES
('Basic'),
('Standard'),
('Premium'),
('Couple'),
('Student');
SELECT * FROM plans;
CREATE TABLE Members (
  MemberID INT PRIMARY KEY,
  FirstName VARCHAR(50),
LastName VARCHAR(50),
  PhoneNo VARCHAR(20),
  Age INT,
  Gender ENUM('Male', 'Female', 'Other'),
  PlanName ENUM('Basic', 'Standard', 'Premium', 'Couple', 'Student'),
  PlanID INT,
  FOREIGN KEY (PlanID) REFERENCES plans(PlanID)
);
INSERT INTO Members (MemberID, FirstName, LastName, PhoneNo, Age, Gender, PlanName, PlanID)
VALUES
(1, 'John', 'Doe', '1234567890', 30, 'Male', 'Basic', 1),
(2, 'Jane', 'Smith', '9876543210', 25, 'Female', 'Standard', 2),
```

- (3, 'Michael', 'Johnson', '5683723727', 40, 'Male', 'Premium', 3),
- (4, 'Emily', 'Davis', '8053083678', 35, 'Female', 'Standard', 2),
- (5, 'Christopher', 'Brown', '5049444119', 28, 'Male', 'Basic', 1),
- (6, 'Jessica', 'Wilson', '9344541826', 33, 'Female', 'Premium', 3),
- (7, 'Matthew', 'Taylor', '7196402739', 45, 'Male', 'Standard', 2),
- (8, 'Amanda', 'Martinez', '5864139699', 22, 'Female', 'Basic', 1),
- (9, 'David', 'Anderson', '9778816901', 29, 'Male', 'Student', 5),
- (10, 'Jennifer', 'Thomas', '7751815220', 31, 'Female', 'Basic', 1),
- (11, 'James', 'Jackson', '9000228385', 27, 'Male', 'Standard', 2),
- (12, 'Melissa', 'White', '6512792946', 32, 'Female', 'Premium', 3),
- (13, 'Ryan', 'Harris', '8768380253', 26, 'Male', 'Basic', 1),
- (14, 'Sarah', 'Clark', '2870815315', 24, 'Female', 'Standard', 2),
- (15, 'Daniel', 'Lewis', '2251652275', 38, 'Male', 'Couple', 4),
- (16, 'Laura', 'Turner', '6115114112', 36, 'Female', 'Basic', 1),
- (17, 'Kevin', 'Martin', '8097248122', 34, 'Male', 'Standard', 2),
- (18, 'Kimberly', 'Lee', '4665700669', 23, 'Female', 'Premium', 3),
- (19, 'Justin', 'Perez', '7720334133', 41, 'Male', 'Basic', 1),
- (20, 'Ashley', 'Nguyen', '1234567876', 39, 'Female', 'Premium', 3),
- (21, 'Brandon', 'Robinson', '9876543456', 37, 'Male', 'Student', 5),
- (22, 'Stephanie', 'Hall', '9872323575', 20, 'Female', 'Basic', 1),
- (23, 'Andrew', 'Allen', '8765432345', 21, 'Male', 'Standard', 2),
- (24, 'Nicole', 'King', '3456833467', 42, 'Female', 'Basic', 1),
- (25, 'Robert', 'Scott', '7654322345', 43, 'Male', 'Premium', 3),
- (26, 'Christina', 'Green', '6543234567', 44, 'Female', 'Standard', 2),
- (27, 'William', 'Adams', '2345676543', 46, 'Male', 'Basic', 1),
- (28, 'Megan', 'Baker', '3264786978', 47, 'Female', 'Premium', 3),
- (29, 'Nicholas', 'Nelson', '6534354676', 48, 'Male', 'Basic', 1),
- (30, 'Kayla', 'Rivera', '1237893456', 49, 'Female', 'Standard', 2),
- (31, 'Zachary', 'Carter', '9876556789', 50, 'Male', 'Basic', 1),
- (32, 'Vanessa', 'Torres', '1900956789', 51, 'Female', 'Premium', 3),
- (33, 'Cody', 'Evans', '5798833961', 52, 'Male', 'Student', 5),
- (34, 'Rebecca', 'Hughes', '3253267065', 53, 'Female', 'Basic', 1),
- (35, 'Tyler', 'Long', '7226178674', 54, 'Male', 'Standard', 2),
- (36, 'Brittany', 'Foster', '3758325044', 55, 'Female', 'Premium', 3),
- (37, 'Austin', 'Diaz', '9647943412', 56, 'Male', 'Basic', 1),
- (38, 'Hannah', 'Griffin', '6571131003', 57, 'Female', 'Standard', 2),
- (39, 'Dylan', 'Russell', '7037798274', 58, 'Male', 'Basic', 1),
- (40, 'Samantha', 'Diaz', '5201559505', 59, 'Female', 'Premium', 3),
- (41, 'Jordan', 'Ward', '8243730048', 60, 'Male', 'Basic', 1),
- (42, 'Maria', 'Bell', '8748020948', 61, 'Female', 'Standard', 2),

- (43, 'Joshua', 'Price', '1804013581', 62, 'Male', 'Basic', 1),
- (44, 'Lauren', 'Murphy', '3623178417', 63, 'Female', 'Premium', 3),
- (45, 'Alex', 'Campbell', '5678323358', 64, 'Male', 'Basic', 1),
- (46, 'Olivia', 'Foster', '8385367973', 65, 'Female', 'Standard', 2),
- (47, 'Ethan', 'Richardson', '3279566109', 66, 'Male', 'Premium', 3),
- (48, 'Grace', 'Diaz', '6158343963', 67, 'Female', 'Basic', 1),
- (49, 'Noah', 'Bryant', '3210322449', 68, 'Male', 'Student', 5),
- (50, 'Chloe', 'Sanders', '8001463499', 69, 'Female', 'Basic', 1);

SELECT * FROM Members;

CREATE TABLE BasicPlan AS

SELECT *

FROM members

WHERE PlanName = 'Basic';

SELECT * FROM BasicPlan;

CREATE TABLE StandardPlan AS

SELECT *

FROM members

WHERE PlanName = 'Standard';

SELECT * FROM StandardPlan;

CREATE TABLE PremiumPlan AS

SELECT *

FROM members

WHERE PlanName = 'Premium';

SELECT * FROM PremiumPlan;

CREATE TABLE CouplePlan AS

SELECT *

FROM members

WHERE PlanName = 'Couple';

CREATE TABLE StudentPlan AS

SELECT *

FROM members

```
WHERE PlanName = 'Student';
SELECT * FROM StudentPlan:
Show Tables;
CREATE TABLE Trainers (
  TrainerID INT PRIMARY KEY,
  Name VARCHAR(100),
  PhoneNo VARCHAR(20),
  PlanName ENUM('Standard', 'Premium', 'Couple', 'Student'),
  PlanID INT,
  Specialization VARCHAR(100),
  Age INT,
  Gender VARCHAR(10),
  FOREIGN KEY (PlanID) REFERENCES plans(PlanID)
);
INSERT INTO Trainers (TrainerID, Name, PhoneNo, PlanName, PlanID, Specialization, Age, Gender)
VALUES
(1, 'Sonia Dailey', '7048571096', 'Standard', 2, 'Zumba', 30, 'Female'),
(2, 'David Miller', '9276356499', 'Premium', 3, 'Yoga', 38, 'Male'),
(3, 'Sophia Garcia', '6758014676', 'Premium', 3, 'Pilates', 32, 'Female'),
(4, 'Daniel Martinez', '2664245272', 'Premium', 3, 'Boot camp', 40, 'Male'),
(5, 'Emily Brown', '3100894721', 'Premium', 3, 'Pilates', 40, 'Female'),
(6, 'Michael Davis', '9381389554', 'Premium', 3, 'Strength training', 45, 'Male'),
(7, 'Jessica Wilson', '9636032615', 'Premium', 3, 'Boot camp', 35, 'Female'),
(8, 'Nichole Lewis', '8122409578', 'Couple', 4, 'HIIT', 35, 'Male'),
(9, 'Alex Johnson', '9231475436', 'Student', 5, 'Yoga', 28, 'Male');
SELECT * FROM Trainers;
CREATE TABLE Classes (
  ClassID INT PRIMARY KEY AUTO_INCREMENT,
  Specialization ENUM('Pilates', 'Boot camp', 'Strength training', 'HIIT', 'Yoga', 'Zumba'),
  TrainerID INT,
  Duration INT,
  FOREIGN KEY (TrainerID) REFERENCES Trainers(TrainerID)
INSERT INTO Classes (Specialization, TrainerID, Duration)
VALUES
```

```
('Zumba', 1, 45),
('Yoga', 2, 60),
('Pilates', 3, 90),
('Boot camp', 4, 90),
('Pilates', 5, 90),
('Strength training', 6, 60),
('Boot camp', 7, 90),
('HIIT', 8, 60),
('Yoga', 9, 60);
SELECT * FROM Classes;
CREATE TABLE Payments (
  PaymentID INT PRIMARY KEY AUTO_INCREMENT,
  MemberID INT,
  PaymentDate DATE,
  PaymentStatus ENUM('Paid', 'Unpaid'),
  PlanID INT,
  FOREIGN KEY (MemberID) REFERENCES members(memberID),
  FOREIGN KEY (PlanID) REFERENCES plans(PlanID)
);
INSERT INTO Payments (MemberID, PaymentDate, PaymentStatus, PlanID)
VALUES
(1, '2024-01-23', 'Paid', 1),
(2, CURDATE(), 'Unpaid', 2),
(3, '2024-04-14', 'Paid', 3),
(4, '2024-03-01', 'Paid', 2),
(5, CURDATE(), 'Unpaid', 1),
(6, '2024-02-25', 'Paid', 3),
(7, CURDATE(), 'Unpaid', 2),
(8, '2024-02-12', 'Paid', 1),
(9, '2024-01-18', 'Paid', 5),
(10, '2024-01-10', 'Paid', 1),
(11, '2024-02-04', 'Paid', 2),
(12, CURDATE(), 'Unpaid', 3),
(13, CURDATE(), 'Unpaid', 1),
(14, '2024-03-02', 'Paid', 2),
(15, '2024-03-05', 'Paid', 4),
(16, '2024-03-17', 'Paid', 1),
```

- (17, '2024-02-16', 'Paid', 2),
- (18, '2024-02-04', 'Paid', 3),
- (19, '2024-01-05', 'Paid', 1),
- (20, '2024-01-09', 'Paid', 3),
- (21, CURDATE(), 'Unpaid', 5),
- (22, '2024-01-15', 'Paid', 1),
- (23, '2024-01-26', 'Paid', 2),
- (24, CURDATE(), 'Unpaid', 1),
- (25, CURDATE(), 'Unpaid', 3),
- (26, '2024-02-20', 'Paid', 2),
- (27, '2024-04-23', 'Paid', 1),
- (28, '2024-03-17', 'Paid', 3),
- (29, '2024-02-06', 'Paid', 1),
- (30, '2024-01-08', 'Paid', 2),
- (31, '2024-02-16', 'Paid', 1),
- (32, '2024-01-18', 'Paid', 3),
- (33, '2024-02-11', 'Paid', 5),
- (34, CURDATE(), 'Unpaid', 1),
- (35, '2024-03-19', 'Paid', 2),
- (36, '2024-02-04', 'Paid', 3),
- (37, '2024-01-27', 'Paid', 1),
- (38, CURDATE(), 'Unpaid', 2),
- (39, '2024-01-25', 'Paid', 1),
- (40, '2024-01-20', 'Paid', 3),
- (41, '2024-02-22', 'Paid', 1),
- (42, CURDATE(), 'Unpaid', 2),
- (43, '2024-04-28', 'Paid', 1),
- (44, '2024-03-01', 'Paid', 3),
- (45, '2024-02-17', 'Paid', 1),
- (46, '2024-01-18', 'Paid', 2),
- (47, '2024-01-10', 'Paid', 3),
- (48, '2024-01-17', 'Paid', 1),
- (49, CURDATE(), 'Unpaid', 5),
- (50, '2024-02-01', 'Paid', 1);
- SELECT * FROM Payments;

Output of Tables: plans:

| | PlanID | PlanName |
|---|--------|----------|
| • | 1 | Basic |
| | 2 | Standard |
| | 3 | Premium |
| | 4 | Couple |
| | 5 | Student |
| | 6 | Basic |
| | 7 | Standard |
| | 8 | Premium |
| | 9 | Couple |
| | 10 | Student |
| | NULL | NULL |

Members:

| MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
|--|---|--|--|---|--|--|--|
| 1 | John | Doe | 1234567890 | 30 | Male | Basic | 1 |
| 2 | Jane | Smith | 9876543210 | 25 | Female | Standard | 2 |
| 3 | Michael | Johnson | 5683723727 | 40 | Male | Premium | 3 |
| 4 | Emily | Davis | 8053083678 | 35 | Female | Standard | 2 |
| 5 | Christopher | Brown | 5049444119 | 28 | Male | Basic | 1 |
| 6 | Jessica | Wilson | 9344541826 | 33 | Female | Premium | 3 |
| 7 | Matthew | Taylor | 7196402739 | 45 | Male | Standard | 2 |
| 8 | Amanda | Martinez | 5864139699 | 22 | Female | Basic | 1 |
| 9 | David | Anderson | 9778816901 | 29 | Male | Student | 5 |
| 10 | Jennifer | Thomas | 7751815220 | 31 | Female | Basic | 1 |
| 11 | James | Jackson | 9000228385 | 27 | Male | Standard | 2 |
| 12 | Melissa | White | 6512792946 | 32 | Female | Premium | 3 |
| 13 | Ryan | Harris | 8768380253 | 26 | Male | Basic | 1 |
| 14 | Sarah | Clark | 2870815315 | 24 | Female | Standard | 2 |
| 15 | Daniel | Lewis | 2251652275 | 38 | Male | Couple | 4 |
| 16 | Laura | Turner | 6115114112 | 36 | Female | Basic | 1 |
| 17 | Kevin | Martin | 8097248122 | 34 | Male | Standard | 2 |
| 18 | Kimberly | Lee | 4665700669 | 23 | Female | Premium | 3 |
| 19 | Justin | Perez | 7720334133 | 41 | Male | Basic | 1 |
| 20 | Ashlev | Nauven | 1234567876 | 39 | Female | Premium | 3 |
| 21 | Brandon | Robinson | 9876543456 | 37 | Male | Student | 5 |
| 22 | Stephanie | Hall | 9872323575 | 20 | Female | Basic | 1 |
| 23 | Andrew | Allen | 8765432345 | 21 | Male | Standard | 2 |
| 24 | Nicole | King | 3456833467 | 42 | Female | Basic | 1 |
| 25 | Robert | Scott | 7654322345 | 43 | Male | Premium | 3 |
| 26 | Christina | Green | 6543234567 | 44 | Female | Standard | 2 |
| 27 | William | Adams | 2345676543 | 46 | Male | Basic | 1 |
| 28 | Megan | Baker | 3264786978 | 47 | Female | Premium | 3 |
| | | | | | | | |
| MomborID | | | | - | | | |
| MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
| 25 | FirstName Robert | LastName Scott | PhoneNo 7654322345 | Age 43 | Gender Male | PlanName Premium | PlanID 3 |
| 25 26 | FirstName Robert Christina | LastName Scott Green | PhoneNo 7654322345 6543234567 | Age 43 44 | Gender Male Female | PlanName Premium Standard | PlanID 3 2 |
| 25 26 27 | FirstName Robert Christina William | LastName Scott Green Adams | PhoneNo 7654322345 6543234567 2345676543 | Age 43 44 46 | Gender Male Female Male | PlanName Premium Standard Basic | PlanID 3 2 |
| 25 26 27 28 | FirstName Robert Christina William Megan | LastName Scott Green Adams Baker | PhoneNo 7654322345 6543234567 2345676543 3264786978 | Age 43 44 46 47 | Gender Male Female Male Female | PlanName Premium Standard Basic Premium | PlanID 3 2 1 3 |
| 25 26 27 28 29 | FirstName Robert Christina William Megan Nicholas | LastName Scott Green Adams Baker Nelson | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 | Age 43 44 46 47 48 | Gender Male Female Male Female Male | PlanName Premium Standard Basic Premium Basic | PlanID 3 2 1 3 1 |
| 25 26 27 28 29 30 | FirstName Robert Christina William Megan Nicholas Kayla | LastName Scott Green Adams Baker Nelson Rivera | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 1237893456 | Age 43 44 46 47 48 49 | Gender Male Female Male Female Male Female | PlanName Premium Standard Basic Premium Basic Standard | PlanID 3 2 1 3 1 2 |
| 25 26 27 28 29 30 31 | FirstName Robert Christina William Megan Nicholas Kayla Zachary | LastName Scott Green Adams Baker Nelson Rivera Carter | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 1237893456 9876556789 | Age 43 44 46 47 48 49 50 | Gender Male Female Male Female Male Female Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic | PlanID 3 2 1 3 1 2 1 |
| 25 26 27 28 29 30 31 32 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa | LastName Scott Green Adams Baker Nelson Rivera Carter Torres | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 | Age 43 44 46 47 48 49 50 51 | Gender Male Female Male Female Male Female Male Female Female Female | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Premium Basic Basic Premium | PlanID 3 2 1 3 1 2 1 3 3 |
| 25 26 27 28 29 30 31 32 33 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 | Age 43 44 46 47 48 49 50 51 | Gender Male Female Male Female Male Female Male Female Male Female Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student | PlanID 3 2 1 3 1 2 1 3 5 |
| 25 26 27 28 29 30 31 32 33 34 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 | Age 43 44 46 47 48 49 50 51 52 53 | Gender Male Female Male Female Male Female Male Female Male Female Female Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic | PlanID 3 2 1 3 1 2 1 3 1 2 1 1 3 1 1 1 1 1 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 5798833961 3253267065 7226178674 | Age 43 44 46 47 48 49 50 51 52 53 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard | PlanID 3 2 1 3 1 2 1 3 5 1 2 2 |
| 25 26 27 28 29 30 31 32 33 34 35 36 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 2253267065 7226178674 3758325044 | Age 43 44 46 47 48 49 50 51 52 53 54 55 | Gender Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard Premium Student Basic | PlanID 3 2 1 3 1 2 1 3 1 2 1 3 5 1 2 3 5 1 2 3 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 9647943412 | Age 43 44 46 47 48 49 50 51 52 53 54 55 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 1 3 5 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah | LastVame Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin | PhoneNo 7654322345 6543234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 6647943412 6571131003 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 | Gender Male Female Female Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard Premium Student Basic Standard Premium Basic Standard | PlanID 3 2 1 3 1 2 1 3 5 1 2 1 3 5 1 2 2 3 1 2 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 1900956789 190956789 479833961 3253267065 7226178674 3758325044 9647943412 6571131003 7037798274 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Standard Basic Standard Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 1 3 5 1 2 1 1 2 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Long Foster Diaz Griffin Russell Diaz | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 1900956789 2526178674 3758325044 9647943412 6571131003 7037798274 5201559505 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 59 | Gender Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Student Basic Standard Premium Basic Standard Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 1 3 5 1 2 1 3 3 5 1 2 3 1 2 3 1 3 |
| 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 40 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 9647943412 6571131003 7037798274 5201559505 8243730048 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Student Basic Standard Premium Basic Standard Premium Basic Standard Basic Standard Basic Standard Basic Standard Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 3 1 2 1 3 5 1 1 2 1 3 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 6571131003 7037798274 5201559505 82433730048 8748020948 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 | Gender Male Female Female Female Female | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Basic Standard Premium Basic Standard Premium Basic Standard Basic Standard Standard Basic Standard Standard Standard Standard | PlanID 3 2 1 3 1 2 1 3 5 1 2 1 3 1 2 1 3 1 2 3 1 2 3 1 2 2 1 2 2 3 1 2 2 1 2 2 2 2 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 1900956789 190956789 13253267065 7226178674 3758325044 9647943412 6571131003 7037798274 5201559505 8243730048 8748020948 1804013581 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Basic Standard Premium Basic Standard Basic Standard Basic Standard Basic Standard Basic Standard Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 2 1 3 1 2 1 3 1 2 1 1 2 1 1 3 1 2 1 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 1900956789 1900956789 1758325044 9647943412 6571131003 7037798274 5201559505 8243730048 8748020948 8104013581 3623178417 | Age 43 44 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 | Gender Male Female Female Male Female Female Male Female Female | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Basic Standard Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 3 1 2 1 3 5 1 2 1 3 1 2 1 3 1 3 1 2 1 3 1 3 1 3 |
| 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 44 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren Alex | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy Campbell | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 9647943412 6571131003 7037798274 5201559505 8243730048 8748020948 8748020948 8748020943 81804013581 3623178417 5678323358 | Age 43 44 46 47 48 49 55 55 55 55 56 57 58 59 60 61 62 63 64 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard Premium Basic Standard Premium Basic Standard Premium Basic Premium Basic Premium Basic Standard Basic Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 3 1 2 1 3 5 1 2 1 3 1 2 1 3 1 1 2 1 3 1 1 2 1 3 1 1 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren Alex Olivia | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy Long Price Murphy Foster Long Foster Diaz Griffin Russell Foster Foster Foster Foster | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 6571131003 7037798274 5201559505 8243730048 8748020948 1804013581 3623178417 65678323358 8385367973 | Age 43 44 46 47 48 49 50 51 55 56 57 58 59 60 61 62 63 64 65 | Gender Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Basic Standard Premium Basic Standard Basic Standard Basic Premium Basic Standard Basic Premium Basic Standard Basic Standard Standard Standard Standard Standard Standard Standard | PlanID 3 3 2 1 3 1 2 1 1 3 5 1 2 1 1 2 1 1 3 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 |
| 25 26 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 44 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren Alex | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy Campbell | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 9647943412 6571131003 7037798274 5201559505 8243730048 8748020948 8748020948 8748020943 81804013581 3623178417 5678323358 | Age 43 44 46 47 48 49 55 55 55 55 56 57 58 59 60 61 62 63 64 | Gender Male Female Male | PlanName Premium Standard Basic Premium Basic Standard Basic Premium Student Basic Standard Premium Basic Standard Premium Basic Standard Premium Basic Premium Basic Premium Basic Standard Basic Premium Basic | PlanID 3 2 1 3 1 2 1 3 5 1 2 3 1 2 1 3 5 1 2 1 3 1 2 1 3 1 1 2 1 3 1 1 1 1 1 1 1 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren Alex Olivia | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy Long Price Murphy Foster Long Foster Diaz Griffin Russell Foster Foster Foster Foster | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 5798833961 3253267065 7226178674 3758325044 6571131003 7037798274 5201559505 8243730048 8748020948 1804013581 3623178417 65678323358 8385367973 | Age 43 44 46 47 48 49 50 51 55 56 57 58 59 60 61 62 63 64 65 | Gender Male Female | PlanName Premium Standard Basic Premium Basic Standard Basic Standard Basic Student Basic Standard Premium Basic Standard Premium Basic Standard Basic Standard Basic Premium Basic Standard Basic Premium Basic Standard Basic Standard Standard Standard Standard Standard Standard Standard | PlanID 3 3 2 1 3 1 2 1 1 3 5 1 2 1 1 2 1 1 3 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 |
| 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 | FirstName Robert Christina William Megan Nicholas Kayla Zachary Vanessa Cody Rebecca Tyler Brittany Austin Hannah Dylan Samantha Jordan Maria Joshua Lauren Alex Olivia Ethan | LastName Scott Green Adams Baker Nelson Rivera Carter Torres Evans Hughes Long Foster Diaz Griffin Russell Diaz Ward Bell Price Murphy Campbell Foster Richardson | PhoneNo 7654322345 65432234567 2345676543 3264786978 6534354676 1237893456 9876556789 1900956789 1900956789 5798833961 3253267065 7226178674 3758325044 9647943412 6571131003 7037798274 5201559505 8243730048 8748020948 1804013581 3623178417 5678323358 8385367973 3279566109 | Age 43 44 46 47 48 49 50 51 52 53 56 57 58 60 61 62 63 64 65 66 | Gender Male Female Male | PlanName Premium Standard Basic Premium Standard Basic Standard Basic Standard Basic Student Basic Standard Premium Standard Basic Standard Premium Basic Standard Basic Standard Basic Premium Basic Standard Basic Standard Basic Standard Premium Basic | PlanID 3 3 2 1 1 3 1 1 2 2 1 1 3 3 1 1 2 2 1 1 3 3 1 1 2 2 1 3 3 1 1 2 2 1 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 3 1 1 2 2 3 3 3 1 1 2 2 3 3 3 3 |

BasicPlan:

| | MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
|---|----------|-------------|----------|------------|-----|--------|----------|--------|
| Þ | 1 | John | Doe | 1234567890 | 30 | Male | Basic | 1 |
| | 5 | Christopher | Brown | 5049444119 | 28 | Male | Basic | 1 |
| | 8 | Amanda | Martinez | 5864139699 | 22 | Female | Basic | 1 |
| | 10 | Jennifer | Thomas | 7751815220 | 31 | Female | Basic | 1 |
| | 13 | Ryan | Harris | 8768380253 | 26 | Male | Basic | 1 |
| | 16 | Laura | Turner | 6115114112 | 36 | Female | Basic | 1 |
| | 19 | Justin | Perez | 7720334133 | 41 | Male | Basic | 1 |
| | 22 | Stephanie | Hall | 9872323575 | 20 | Female | Basic | 1 |
| | 24 | Nicole | King | 3456833467 | 42 | Female | Basic | 1 |
| | 27 | William | Adams | 2345676543 | 46 | Male | Basic | 1 |
| | 29 | Nicholas | Nelson | 6534354676 | 48 | Male | Basic | 1 |
| | 31 | Zachary | Carter | 9876556789 | 50 | Male | Basic | 1 |
| | 34 | Rebecca | Hughes | 3253267065 | 53 | Female | Basic | 1 |
| | 37 | Austin | Diaz | 9647943412 | 56 | Male | Basic | 1 |
| | 39 | Dylan | Russell | 7037798274 | 58 | Male | Basic | 1 |
| | 41 | Jordan | Ward | 8243730048 | 60 | Male | Basic | 1 |
| | 43 | Joshua | Price | 1804013581 | 62 | Male | Basic | 1 |
| | 45 | Alex | Campbell | 5678323358 | 64 | Male | Basic | 1 |
| | 48 | Grace | Diaz | 6158343963 | 67 | Female | Basic | 1 |
| | 50 | Chloe | Sanders | 8001463499 | 69 | Female | Basic | 1 |
| | | | | | | | | |

StandardPlan:

| | MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
|---|----------|-----------|----------|------------|-----|--------|----------|--------|
| • | 2 | Jane | Smith | 9876543210 | 25 | Female | Standard | 2 |
| | 4 | Emily | Davis | 8053083678 | 35 | Female | Standard | 2 |
| | 7 | Matthew | Taylor | 7196402739 | 45 | Male | Standard | 2 |
| | 11 | James | Jackson | 9000228385 | 27 | Male | Standard | 2 |
| | 14 | Sarah | Clark | 2870815315 | 24 | Female | Standard | 2 |
| | 17 | Kevin | Martin | 8097248122 | 34 | Male | Standard | 2 |
| | 23 | Andrew | Allen | 8765432345 | 21 | Male | Standard | 2 |
| | 26 | Christina | Green | Green 4567 | 44 | Female | Standard | 2 |
| | 30 | Kayla | Rivera | 123/893456 | 49 | Female | Standard | 2 |
| | 35 | Tyler | Long | 7226178674 | 54 | Male | Standard | 2 |
| | 38 | Hannah | Griffin | 6571131003 | 57 | Female | Standard | 2 |
| | 42 | Maria | Bell | 8748020948 | 61 | Female | Standard | 2 |
| | 46 | Olivia | Enster | 8385367973 | 65 | Female | Standard | 2 |

PremiumPlan:

| | MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
|---|----------|-----------|------------|------------|-----|--------|----------|--------|
| • | 3 | Michael | Johnson | 5683723727 | 40 | Male | Premium | 3 |
| | 6 | Jessica | Wilson | 9344541826 | 33 | Female | Premium | 3 |
| | 12 | Melissa | White | 6512792946 | 32 | Female | Premium | 3 |
| | 18 | Kimberly | Lee | 4665700669 | 23 | Female | Premium | 3 |
| | 20 | Ashley | Nguyen | 1234567876 | 39 | Female | Premium | 3 |
| | 25 | Robert | Scott | 7654322345 | 43 | Male | Premium | 3 |
| | 28 | Megan | Baker | 3264786978 | 47 | Female | Premium | 3 |
| | 32 | Vanessa | Torres | 1900956789 | 51 | Female | Premium | 3 |
| | 36 | Brittany | Foster | 3758325044 | 55 | Female | Premium | 3 |
| | 40 | Samantha | Diaz | 5201559505 | 59 | Female | Premium | 3 |
| | 44 | Lauren | Murphy | 3623178417 | 63 | Female | Premium | 3 |
| | 47 | Ethan | Richardson | 3279566109 | 66 | Male | Premium | 3 |

CouplePlan:

| | MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID | PartnerName | PartnerAge | PartnerGender |
|----------|----------|-----------|----------|------------|-----|--------|----------|--------|-------------|------------|---------------|
| • | 15 | Daniel | Lewis | 2251652275 | 38 | Male | Couple | 5 | Camille | 36 | Female |

StudentPlan:

| | MemberID | FirstName | LastName | PhoneNo | Age | Gender | PlanName | PlanID |
|---|----------|-----------|----------|------------|-----|--------|----------|--------|
| • | 9 | David | Anderson | 9778816901 | 29 | Male | Student | 5 |
| | 21 | Brandon | Robinson | 9876543456 | 37 | Male | Student | 5 |
| | 33 | Cody | Evans | 5798833961 | 52 | Male | Student | 5 |
| | 40 | Noah | Bryant | 3210322449 | 68 | Male | Student | 5 |

Trainers:

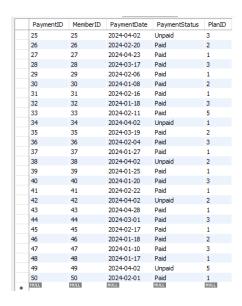
| | TrainerID | Name | PhoneNo | PlanName | PlanID | Specialization | Age | Gender |
|---|-----------|-----------------|------------|----------|--------|-------------------|------|--------|
| Þ | 1 | Sonia Dailey | 7048571096 | Standard | 2 | Zumba | 30 | Female |
| | 2 | David Miller | 9276356499 | Premium | 3 | Yoga | 38 | Male |
| | 3 | Sophia Garcia | 6758014676 | Premium | 3 | Pilates | 32 | Female |
| | 4 | Daniel Martinez | 2664245272 | Premium | 3 | Boot camp | 40 | Male |
| | 5 | Emily Brown | 3100894721 | Premium | 3 | Pilates | 40 | Female |
| | 6 | Michael Davis | 9381389554 | Premium | 3 | Strength training | 45 | Male |
| | 7 | Jessica Wilson | 9636032615 | Premium | 3 | Boot camp | 35 | Female |
| | 8 | Nichole Lewis | 8122409578 | Couple | 4 | HIIT | 35 | Male |
| | 9 | Alex Johnson | 9231475436 | Student | 5 | Yoga | 28 | Male |
| | HULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Classes:

| | ClassID | ClassName | TrainerID | Duration |
|---|---------|-------------------|-----------|----------|
| • | 1 | Zumba | 1 | 45 |
| | 2 | Yoga | 2 | 60 |
| | 3 | Pilates | 3 | 90 |
| | 4 | Boot camp | 4 | 90 |
| | 5 | Pilates | 5 | 90 |
| | 6 | Strength training | 6 | 60 |
| | 7 | Boot camp | 7 | 90 |
| | 8 | HIIT | 8 | 60 |
| | 9 | Yoga | 9 | 60 |
| | NULL | NULL | NULL | NULL |

Payments:

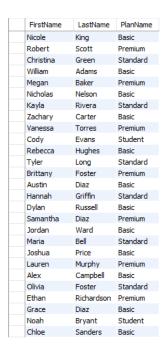
| | PaymentID | MemberID | PaymentDate | PaymentStatus | PlanID |
|---|-----------|----------|-------------|---------------|--------|
| • | 1 | 1 | 2024-01-23 | Paid | 1 |
| | 2 | 2 | 2024-04-02 | Unpaid | 2 |
| | 3 | 3 | 2024-04-14 | Paid | 3 |
| | 4 | 4 | 2024-03-01 | Paid | 2 |
| | 5 | 5 | 2024-04-02 | Unpaid | 1 |
| | 6 | 6 | 2024-02-25 | Paid | 3 |
| | 7 | 7 | 2024-04-02 | Unpaid | 2 |
| | 8 | 8 | 2024-02-12 | Paid | 1 |
| | 9 | 9 | 2024-01-18 | Paid | 5 |
| | 10 | 10 | 2024-01-10 | Paid | 1 |
| | 11 | 11 | 2024-02-04 | Paid | 2 |
| | 12 | 12 | 2024-04-02 | Unpaid | 3 |
| | 13 | 13 | 2024-04-02 | Unpaid | 1 |
| | 14 | 14 | 2024-03-02 | Paid | 2 |
| | 15 | 15 | 2024-03-05 | Paid | 4 |
| | 16 | 16 | 2024-03-17 | Paid | 1 |
| | 17 | 17 | 2024-02-16 | Paid | 2 |
| | 18 | 18 | 2024-02-04 | Paid | 3 |
| | 19 | 19 | 2024-01-05 | Paid | 1 |
| | 20 | 20 | 2024-01-09 | Paid | 3 |
| | 21 | 21 | 2024-04-02 | Unpaid | 5 |
| | 22 | 22 | 2024-01-15 | Paid | 1 |
| | 23 | 23 | 2024-01-26 | Paid | 2 |
| | 24 | 24 | 2024-04-02 | Unpaid | 1 |
| | 25 | 25 | 2024-04-02 | Unpaid | 3 |



SQL Queries:

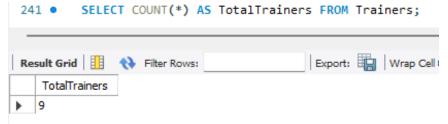
1. Select all members' first names and last names along with their plan names:



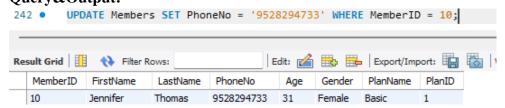


2. Count the total number of trainers:

Query&Output:



3. Update the phone number of a member with MemberID 10: Query&Output:



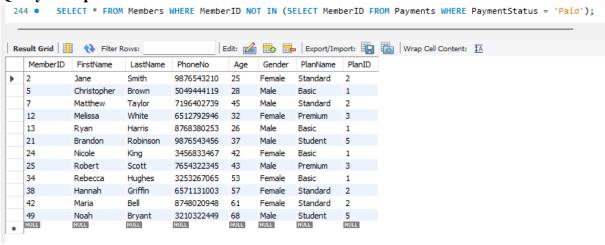
4. Find the average age of members:

Query&Output:



5. List all members who have not paid yet:

Query&Output:



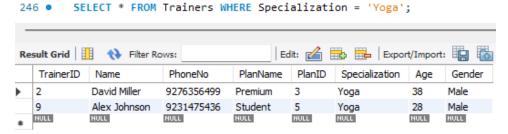
6. Find the oldest member's age:

Query&Output:



7. List all trainers who specialize in Yoga:

Query&Output:



8. Calculate the total duration of all classes:

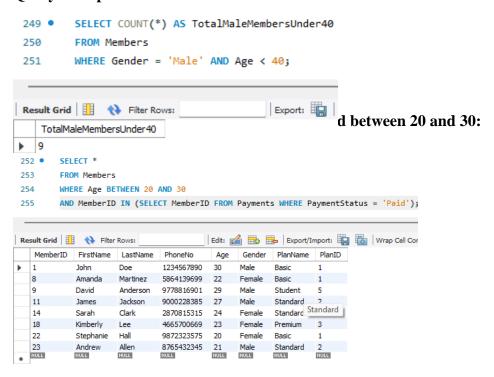
Query&Output:



9. Find the total number of classes each trainer conducts: Query&Output:

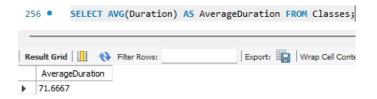


10. Find the total number of male members aged below 40: Query&Output:



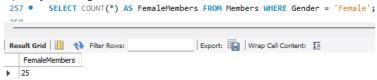
12. Find the average duration of classes:

Query&Output:



13. Count the number of female members:

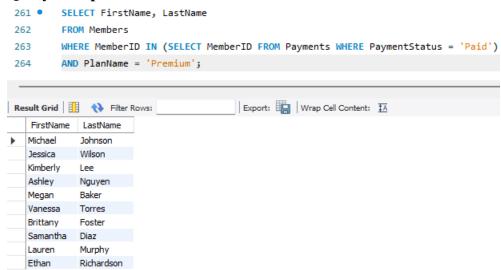
Query&Output:



14. Find the total number of payments made in January 2024: Query&Output:



15. Find the names of members who have paid and are part of the PremiumPlan: Query&Output:

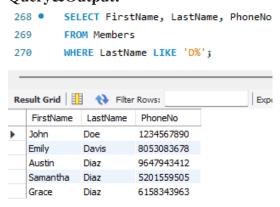


16. Calculate the total number of members enrolled in each plan:

Query&Output:

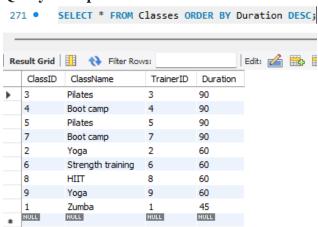
| | 26 | 5 • S | ELECT P | lanName, | COUNT(*) | AS | TotalMembers |
|--------------------------|----|----------|----------|------------|----------|----|--------------|
| 266 FR | | | ROM Mem | OM Members | | | |
| | 26 | 7 G | ROUP BY | ' PlanNam | e; | | |
| | _ | | | | | | |
| | | | | | | | |
| Result Grid Filter Rows: | | | | | | | |
| | | PlanName | e TotalN | 1embers | | | |
|) | • | Basic | 20 | | | | |
| | | Standard | 13 | | | | |
| | | Premium | 12 | | | | |
| | | Student | 4 | | | | |
| | | Couple | 1 | | | | |

17. Find the names and phone numbers of embers whose last names start with "D": Query&Output:

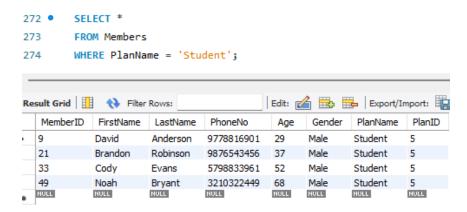


18. List all classes sorted by duration in descending order:

Query&Output:



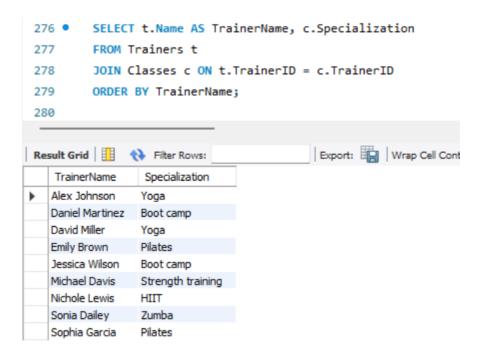
19. List all members who are a part of the StudentPlan: Query&Output:



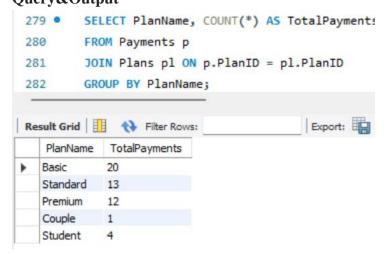
20.Add Partner's Name, Age and Gender to the Table CouplePlan and insert values to it: Query&Output:



21.Display the names of trainers and the classes they conduct, sorted by trainer's name: Query&Output



22. Calculate total number of payments made per plan: Query&Output



VI. Project demonstration

• I have used MySQL for this Project.

VII. Self -Learning beyond classroom:

 My self-learning experience beyond the classroom involved a blend of theoretical knowledge application, problem-solving and practical implementation. This enriched my understanding of DBMS subject in the real-world context.

VIII. Learning from the Project

• In summary, this project provided a hands-on learning experience that bridged theoretical knowledge with practical skills, fostering a deeper understanding of DBMS concepts.

IX. Challenges Faced

- Initially I was trying to connect this FlexFit database to it's front-end website that I created, but faced problems with mysql and html connection using nodejs.
- Understanding the structure and relationships within the database required thorough analysis and interpretation of the provided tables and data.
- Identifying and resolving normalization issues, such as transitive dependencies and redundancy, proved challenging due to the complexity of the data model and relationships.

X. Conclusion

• Overall, the FlexFit database normalization project served as a valuable learning experience that bridged theoretical knowledge with practical skills, preparing for future challenges and opportunities in database management and beyond.