Database Structure

Create Database Vishal pal GYM Management System :

Create Database Vishal_pal_GYM_DBMS;

```
Commands completed successfully.

Completion time: 2023-05-26T14:10:44.4078334+05:30
```

Create Tables and Insert/Update/Delete Data:

Create table Members(

MId int primary key identity(2011,1),

Name nvarchar(50),

joining_date nvarchar(30) ,

Contact_info nvarchar(15),

Supplement_opted BIT,

SFD int,

Training_opted BIT,

Trainer_id int

foreign key(Trainer_id) references Trainers_Available(TID) ,

Gym_Price int);

```
Commands completed successfully.

Completion time: 2023-05-26T14:17:14.4679274+05:30
```

Making an attributes foreign key :

alter table Members add foreign key (SFD) references Supplements_Available(SFD);

```
Commands completed successfully.

Completion time: 2023-05-26T14:21:48.1968092+05:30
```

Delete an attribute from Table Members:

delete from Members where Name = 'Prashant Kumar';

```
Commands completed successfully.

Completion time: 2023-05-26T14:21:48.1968092+05:30
```

Create a table name Trainers_Available:

Create table Trainers_Available(

TID int primary key identity(201,1),

Trainer_Name nvarchar(50),

Trainer_contact nvarchar(10),

Trainer_fee int);

```
Commands completed successfully.

Completion time: 2023-05-26T14:21:48.1968092+05:30
```

Drop all tables:

drop table Members;

drop table Trainers_Available;

drop table Supplements_Available;

```
Commands completed successfully.

Completion time: 2023-05-26T14:21:48.1968092+05:30
```

Create a table name Supplements_Available:

Create table Supplements_Available(

SFD int primary key identity(101,1),

BCAA_Price int,

Fish_Oil_Price int,

Whey_Protein_Price int ,

L_Glutamine_Price int,

Grand_Supplement_Total int

)

```
Commands completed successfully.

Completion time: 2023-05-26T14:35:15.3218595+05:30
```

Inserting values in tables:

insert into Members values ('Raj Aryan Sinha','05MAY2023',7906869882,1,101,1,201,2000);

insert into Members values ('Vivek singh','01MAY2023',6986593214,0,NULL,1,202,3000);

insert into Members values ('Prashant Kumar','27April2023',8659324196,1,103,0,NULL,2000);

insert into Supplements_Available values(0,1500,2500,0,4000);

insert into Supplements_Available values(3000,1500,0,0,4500);

insert into Supplements_Available values(0,0,2500,3500,6000);

insert into Trainers_Available values('Yash',6869963232,5500);

insert into Trainers_Available values('Ramlal',9569963232,2500);

insert into Trainers_Available values('Tarun',9569947232,8500);

Select operation:

Select * from Supplements_Available;

Select * from Members;

Select * from Trainers_Available;

	SFD	BCAA_Price	Fish_Oil_Price	Whey_Protein_Price	L_Glutamine_Price	Grand_Supplement_Total
1	101	0	1500	2500	0	4000
2	102	3000	1500	0	0	4500
3	103	0	0	2500	3500	6000
4	104	0	1500	2500	0	4000
5	105	3000	1500	0	0	4500
6	106	0	0	2500	3500	6000

	MId	Name	joining_date	Contact_info	Supplement_opted	SFD	Training_opted	Trainer_id	Gym_Price
1	2013	Prashant Kumar	27April2023	8659324196	1	103	0	NULL	2000
2	2014	Raj Aryan Sinha	05MAY2023	7906869882	1	101	1	201	2000
3	2015	Vivek singh	01MAY2023	6986593214	0	N...	1	202	3000
4	2016	Prashant Kumar	27April2023	8659324196	1	103	0	NULL	2000

	TID	Trainer_Name	Trainer_contact	Trainer_fee
1	201	Yash	6869963232	5500
2	202	Ramlal	9569963232	2500
3	203	Tarun	9569947232	8500

/*stored procedure for insert TABLE1*/

create proc spinsert

@MId int,

```sql
@Name nvarchar(50),

@joining_date nvarchar(30),

@Contact_info nvarchar(15),

@Supplement_opted BIT,

@SFD int,

@Training_opted BIT,

@Trainer_Id int,

@Gym_Price int

as

begin

insert into Members values
(@Name,@joining_date,@Contact_info,@Supplement_opted,@SFD,

@Training_opted,@Trainer_Id,@Gym_Price)

end;
```

```
 Commands completed successfully.

 Completion time: 2023-05-26T14:45:59.1885800+05:30
```

```sql
execute spinsert

@MId='2011',

@Name='Raj Aryan Sinha',

@joining_date='05MAY2023',

@Contact_info=7906869882,

@Supplement_opted=1,

@SFD=101,

@Training_opted=1,
```

```
@Trainer_Id=201,

@Gym_Price=2000;
```

```
(1 row affected)

Completion time: 2023-05-26T14:47:06.0065808+05:30
```

/*store procedure for update*/

```sql
CREATE PROCEDURE UpdateMember
  @MId int,
  @Supplement_opted bit,
  @SFD int
AS
BEGIN
  UPDATE Members
  SET Supplement_Opted = @Supplement_opted,
    SFD = @SFD
  WHERE MId = @MId;
END
EXEC UpdateMember
  @MId = 2011,
  @Supplement_opted = 1,
  @SFD = 15;
```

```
Commands completed successfully.

Completion time: 2023-05-26T14:50:36.3337640+05:30
```

```sql
/*delete using stored procedure*/
CREATE PROCEDURE DeleteMembers
 @MId int,
 @Joining_date nvarchar(30)
AS
BEGIN
 DELETE FROM Members
 WHERE MId = @MId OR joining_Date = @joining_date;
END


EXEC DeleteMembers
 @MId = 2011,
 @joining_Date = '2023-01-01';
```

```
Commands completed successfully.

Completion time: 2023-05-26T14:53:36.9935032+05:30
```

```sql
/*select using stored procedure*/
CREATE PROCEDURE GetMembers
AS
BEGIN
 SELECT * FROM Members;
END


EXEC GetMembers;
```

```
/*TRIGGER*/

CREATE TRIGGER UpdateGymPrice

ON Members

after update

as

begin

 IF update(Training_opted)

 BEGIN

   update M

   SET Gym_Price = CASE

           when M.Training_opted = 1 then 200

           else 150

         end

   FROM Members M

   INNER JOIN inserted I ON M.MId = I.MId;

 end

End
```

```
Select Members.Name,Members.Contact_info,

Members.joining_date,
```

Members.Gym_Price,

Trainers_Available.Trainer_Name,

Trainers_Available.Trainer_contact,

Trainers_Available.Trainer_fee,

Supplements_Available.BCAA_Price,

Supplements_Available.Fish_Oil_Price,

Supplements_Available.Whey_Protein_Price,

Supplements_Available.L_Glutamine_Price

from Members Inner join Trainers_Available ON Members.Trainer_ID=Trainers_Available.TID

Inner join Supplements_Available ON Members.SFD=Supplements_Available.SFD;

	Name	Contact_info	joining_date	Gym_Price	Trainer_Name	Trainer_contact	Trainer_fee	BCAA_Price	Fish_Oil_Price	Whey_Protein_Price	L_Glutamine_Price
1	Raj Aryan Sinha	7906869882	05MAY2023	2000	Yash	6869963232	5500	0	1500	2500	0
2	Raj Aryan Sinha	7906869882	05MAY2023	2000	Yash	6869963232	5500	0	1500	2500	0

Select Members.Name,Members.Contact_info,

Members.joining_date,

Members.Gym_Price,

Trainers_Available.Trainer_Name,

Trainers_Available.Trainer_contact,

Trainers_Available.Trainer_fee,

Supplements_Available.BCAA_Price,

Supplements_Available.Fish_Oil_Price,

Supplements_Available.Whey_Protein_Price,

Supplements_Available.L_Glutamine_Price,

Supplements_Available.Grand_Supplement_Total

from Members full join Trainers_Available ON Members.Trainer_ID=Trainers_Available.TID

full join Supplements_Available ON Members.SFD=Supplements_Available.SFD;

	Name	Contact_info	joining_date	Gym_Price	Trainer_Name	Trainer_contact	Trainer_fee	BCAA_Price	Fish_Oil_Price	Whey_Protein_Price	L_Glutamine_Price	Grand_Supplement_Total
1	Prashant Kumar	8659324196	27April2023	2000	NULL	NULL	NULL	0	0	2500	3500	6000
2	Raj Aryan Sinha	7906869882	05MAY2023	2000	Yash	6869963232	5500	0	1500	2500	0	4000
3	Vivek singh	6986593214	01MAY2023	3000	Ramlal	9569963232	2500	NULL	NULL	NULL	NULL	NULL
4	Prashant Kumar	8659324196	27April2023	2000	NULL	NULL	NULL	0	0	2500	3500	6000
5	Raj Aryan Sinha	7906869882	05MAY2023	2000	Yash	6869963232	5500	0	1500	2500	0	4000
6	NULL	NULL	NULL	NULL	Tarun	9569947232	8500	NULL	NULL	NULL	NULL	NULL
7	NULL	NULL	NULL	NULL	NULL	NULL	NULL	3000	1500	0	0	4500
8	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0	1500	2500	0	4000
9	NULL	NULL	NULL	NULL	NULL	NULL	NULL	3000	1500	0	0	4500
10	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0	0	2500	3500	6000

/*join using stored procedure*/

CREATE PROCEDURE GetMembersWithTrainers

AS

BEGIN

  SELECT M.Name,M.Contact_info,T.Trainer_Name

  FROM Members M

  INNER JOIN Trainers_Available T ON M.Trainer_id = T.TID;

END

EXEC GetMembersWithTrainers;

	Name	Contact_info	Trainer_Name
1	Raj Aryan Sinha	7906869882	Yash
2	Vivek singh	6986593214	Ramlal
3	Raj Aryan Sinha	7906869882	Yash