

FITLIFE HUB
MILESTONE: IMPLEMENTATION IN MySQL

STUDY_GROUP_42

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Percentage of Effort Contributed by Student1: 50%

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FITLIFE HUB

use fithub;

-- Table for User

```
CREATE TABLE User (  
    User_Id INT PRIMARY KEY,  
    User_Name VARCHAR(255),  
    User_DOB DATE,  
    User_phoneNo VARCHAR(15),  
    User_mailId VARCHAR(255),  
    User_Password VARCHAR(255),  
    User_LoginId VARCHAR(255),  
    BMI FLOAT  
);
```

-- Table for Premium_User

```
CREATE TABLE Premium_User (  
    User_Id INT PRIMARY KEY,  
    User_Name VARCHAR(255),  
    User_DOB DATE,  
    User_phoneNo VARCHAR(15),  
    User_mailId VARCHAR(255),  
    User_Password VARCHAR(255),  
    User_LoginId VARCHAR(255),  
    BMI FLOAT,  
    Counsellor_Id INT,  
    Admin_Id INT,  
    SSN VARCHAR(20),  
    FOREIGN KEY (Counsellor_Id) REFERENCES Medical_Counselling(Counsellor_Id),  
    FOREIGN KEY (Admin_Id, SSN) REFERENCES Fitness_Coach(Admin_Id, SSN),  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);
```

-- Table for General_User

```
CREATE TABLE General_User (  
    User_Id INT PRIMARY KEY,  
    User_Name VARCHAR(255),  
    User_DOB DATE,  
    User_phoneNo VARCHAR(15),  
    User_mailId VARCHAR(255),  
    User_Password VARCHAR(255),  
    User_LoginId VARCHAR(255),  
    BMI FLOAT,  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);
```

-- Table for Activity_Tracker

```
CREATE TABLE Activity_Tracker (  
    Activity_id INT PRIMARY KEY,  
    Activity_type VARCHAR(255),  
    Calories_burnt INT,  
    Hours FLOAT,  
    Step_counts INT,  
    Distance_covered FLOAT,  
    date DATE,  
    Admin_Id INT,  
    User_Id INT,  
    FOREIGN KEY (Admin_Id) REFERENCES Administrator(Admin_Id),  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);
```

-- Table for Activities

```
CREATE TABLE Activities (  
    Activity_id INT PRIMARY KEY,  
    Activity_type VARCHAR(255),  
    Calories_burnt INT,  
    Hours FLOAT,  
    Step_counts INT,  
    Distance_covered FLOAT,  
    date DATE,  
    FOREIGN KEY (Activity_id) REFERENCES Activity_Tracker(Activity_id)  
);
```

-- Table for Exercise

```
CREATE TABLE Exercise (  
    Activity_id INT PRIMARY KEY,  
    Activity_type VARCHAR(255),  
    Calories_burnt INT,  
    Hours FLOAT,  
    Step_counts INT,  
    date DATE,  
    FOREIGN KEY (Activity_id) REFERENCES Activity_Tracker(Activity_id)  
);
```

-- Table for Nutrition_Tracker

```
CREATE TABLE Nutrition_Tracker (  
    Tracking_Id INT PRIMARY KEY,  
    Intake_time DATETIME,  
    User_Id INT,  
    Admin_id INT,  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id),
```

```

    FOREIGN KEY (Admin_id) REFERENCES Administrator(Admin_Id)
);

-- Table for Daily_Intake
CREATE TABLE Daily_Intake (
    Tracking_Id INT PRIMARY KEY,
    Intake_time DATETIME,
    Calories_taken INT,
    Macro_nutrients VARCHAR(255),
    FOREIGN KEY (Tracking_Id) REFERENCES Nutrition_Tracker(Tracking_Id)
);

-- Table for Water_Intake
CREATE TABLE Water_Intake (
    Tracking_Id INT PRIMARY KEY,
    Intake_time DATETIME,
    Litres FLOAT,
    FOREIGN KEY (Tracking_Id) REFERENCES Nutrition_Tracker(Tracking_Id)
);

-- Table for Administrator
CREATE TABLE Administrator (
    Admin_Id INT,
    SSN VARCHAR(20),
    PhoneNo VARCHAR(15),
    DOB DATE,
    EmailId VARCHAR(255),
    Name VARCHAR(255),
    Address VARCHAR(255),
    PRIMARY KEY (Admin_Id, SSN), -- Composite primary key
    INDEX idx_administrator (Admin_Id, SSN) -- Index on the referenced columns
);

-- Table for Social Connect
CREATE TABLE Social_Connect (
    Social_page_Id INT PRIMARY KEY,
    User_Id INT,
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)
);

-- Table for System Admin
CREATE TABLE System_Admin (
    Admin_Id INT,
    SSN VARCHAR(20),
    PhoneNo VARCHAR(15),
    DOB DATE,

```

```
EmailId VARCHAR(255),
Name VARCHAR(255),
Address VARCHAR(255),
PRIMARY KEY (Admin_Id, SSN),
INDEX idx_system_admin (Admin_Id, SSN), -- Index on the referenced columns
FOREIGN KEY (Admin_Id, SSN) REFERENCES Administrator(Admin_Id, SSN)
);
```

-- Table for Fitness Coach

```
CREATE TABLE Fitness_Coach (
    Admin_Id INT,
    SSN VARCHAR(20),
    PhoneNo VARCHAR(15),
    DOB DATE,
    EmailId VARCHAR(255),
    Name VARCHAR(255),
    Address VARCHAR(255),
    PRIMARY KEY (Admin_Id, SSN),
    INDEX idx_fitness_coach (Admin_Id, SSN), -- Index on the referenced columns
    FOREIGN KEY (Admin_Id, SSN) REFERENCES Administrator(Admin_Id, SSN)
);
```

-- Table for Medical Counselling

```
CREATE TABLE Medical_Counselling (
    Counsellor_Id INT,
    SSN VARCHAR(20),
    Phone_Number VARCHAR(15),
    Name VARCHAR(255),
    EmailId VARCHAR(255),
    PRIMARY KEY (Counsellor_Id, SSN),
    INDEX idx_medical_counselling (Counsellor_Id, SSN) -- Index on the referenced columns
);
```

-- Table for Doctors

```
CREATE TABLE Doctors (
    Counsellor_Id INT,
    SSN VARCHAR(20),
    Phone_Number VARCHAR(15),
    Name VARCHAR(255),
    EmailId VARCHAR(255),
    Specialization VARCHAR(255),
    PRIMARY KEY (Counsellor_Id, SSN),
    INDEX idx_doctors (Counsellor_Id, SSN), -- Index on the referenced columns
    FOREIGN KEY (Counsellor_Id, SSN) REFERENCES Medical_Counselling(Counsellor_Id,
SSN)
);
```

-- Table for Dietician

```
CREATE TABLE Dietician (  
    Counsellor_Id INT,  
    SSN VARCHAR(20),  
    Phone_Number VARCHAR(15),  
    Name VARCHAR(255),  
    EmailId VARCHAR(255),  
    Specialization VARCHAR(255),  
    PRIMARY KEY (Counsellor_Id, SSN),  
    INDEX idx_dietician (Counsellor_Id, SSN), -- Index on the referenced columns  
    FOREIGN KEY (Counsellor_Id, SSN) REFERENCES Medical_Counselling(Counsellor_Id,  
SSN)  
);
```

-- Table for Goal Setting

```
CREATE TABLE Goal_Setting (  
    Setting_Id INT PRIMARY KEY,  
    Desired_BMI FLOAT,  
    User_Id INT,  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);
```

-- Table for Payment

```
CREATE TABLE Payment (  
    BankAccountNumber VARCHAR(20) PRIMARY KEY,  
    CardDetails VARCHAR(255),  
    BankAddress VARCHAR(255),  
    BankName VARCHAR(255),  
    User_Id INT,  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id)  
);
```

-- Table for User Admin

```
CREATE TABLE User_Admin (  
    User_Id INT,  
    Admin_Id INT,  
    SSN VARCHAR(20),  
    PRIMARY KEY (User_Id, Admin_Id, SSN),  
    INDEX idx_user_admin (User_Id, Admin_Id, SSN), -- Index on the referenced columns  
    FOREIGN KEY (User_Id) REFERENCES User(User_Id),  
    FOREIGN KEY (Admin_Id, SSN) REFERENCES Administrator(Admin_Id, SSN)  
);
```

-- Table for Medical Fitness

```
CREATE TABLE Medical_Fitness (  
    Counsellor_Id INT,
```

```

C_SSN VARCHAR(20),
Admin_Id INT,
A_SSN VARCHAR(20),
PRIMARY KEY (Counsellor_Id, C_SSN, Admin_Id, A_SSN),
INDEX idx_medical_fitness (Counsellor_Id, C_SSN, Admin_Id, A_SSN), -- Index on the
referenced columns
FOREIGN KEY (Counsellor_Id, C_SSN) REFERENCES
Medical_Counselling(Counsellor_Id, SSN),
FOREIGN KEY (Admin_Id, A_SSN) REFERENCES Administrator(Admin_Id, SSN)
);

```

SHOW TABLES;

```

Tables_in_fithub
activities
activity_tracker
administrator
daily_intake
dietician
doctors
exercise
fitness_coach
general_user
goal_setting
medical_counse...
medical_fitness
nutrition_tracker
payment
premium_user
social_connect
system_admin
user
user_admin
water_intake

```

```

INSERT INTO `general_user` VALUES
(1,'Heath','1952-05-01','746-761-7723','rcff@gmail.com','yoao.thqw','Kendall',36),
(3,'Robbie7','2009-10-29','221-391-6541','kicqtx6@gmail.com','vomv','Orlando',23),
(5,'Carla401','2019-01-04','303-938-7141','monlt963@gmail.com','oquk','Autumn',18),
(7,'Abel','2001-03-07','575-831-1865','xufh.vuho@gmail.com','epyv.tjvmsi','Jeanine',33),
(9,'Keri0','1955-03-28','100-278-9931','zkhdc83@gmail.com','fysf','Cecil',21);

```

SQL QUERIES:

```

SELECT * FROM USER;

```

	User_Id	User_Name	User_DOB	User_phoneNo	User_mailId	User_Password	User_LoginId	BMI
0		Anny	2001-03-07	575-831-1865	xufh.vuho@gmail.com	epyv.tjvmsi	Jeanine	25
1		Erick5	1970-07-15	014-474-8711	pskm@gmail.com	wlkzw.gpncb	Tabatha	26
2		Janice11	2013-02-06	353-114-4212	wdnl@gmail.com	vmsm	Clinton	20
3		Gretchen2	1950-04-17	243-556-3888	pazi8@gmail.com	jrfb.gbrvpvq	Casey	28
4		Lawanda	1984-10-11	817-220-5362	cmrui34@gmail.com	tmttd	Alexis	25
5		Robbie7	2009-10-29	221-391-6541	kicqbx6@gmail.com	vomv	Orlando	20
6		Carla401	2019-01-04	303-938-7141	monlt963@gmail.com	oquk	Autumn	16
7		Heath	1952-05-01	746-761-7723	rcff@gmail.com	yoao.thqw	Kendall	27
8		Kendra278	2009-12-31	387-172-3341	ucyp@gmail.com	lnvdi	Brad	16
9		Brandie6	2014-08-14	556-421-4671	lhynil.ekdhngu@gmail.com	cvzt.bcdue	Sharon	28

SELECT * FROM ACTIVITY_TRACKER;

	Activity_id	Activity_type	Calories_burnt	Hours	Step_counts	Distance_covered	date	Admin_Id	User_Id
▶	0	cycling	324	2	NULL	3.24299	2023-09-02	1801503308	7
	1	swimming	392	2	NULL	3.91588	2023-04-19	1569741369	9
	2	cycling	465	6	NULL	4.6526	2023-08-18	1821668502	5
	3	swimming	242	1	NULL	2.41574	2023-09-08	7896087	0
	4	Jogging	480	1	15000	4.7998	2023-03-05	827187475	1
	5	swimming	344	1	NULL	3.44452	2023-07-02	1174114687	1
	6	cycling	296	7	NULL	2.96438	2023-10-09	2066027269	8
	7	walking	144	1	11025	1.44129	2023-04-27	1821668502	4
	8	cycling	239	6	NULL	2.38884	2023-02-06	1688013308	5
	9	Jogging	449	5	10000	4.48856	2023-08-28	1388829001	2
	10	cardio workout	757	3	NULL	7.57468	2023-08-18	1801503308	7
	11	upper body ...	179	2	NULL	1.79433	2023-04-27	1569741369	9
	12	Full body wo...	540	6	NULL	5.40014	2023-07-02	1821668502	5
	13	Full body wo...	516	1	NULL	5.15654	2023-03-07	7896087	0

SELECT * FROM MEDICAL_COUNSELLING;

Counsellor_Id	SSN	Phone_Number	Name	EmailId
516548019	138-50-6840	329-637-1526	Abraham Blackburn	pskm@gmail.com
715581063	633-11-4032	368-277-6644	Dominick Neal	kicqbx6@gmail.com
827187475	715-34-2687	596-590-8479	Cherie White	monlt963@gmail.com
1182054467	441-28-9532	701-353-3725	Lynn Miles	pazi8@gmail.com
1283218712	129-92-8302	854-774-2282	Erich Ingram	cmrui34@gmail.com
1368843497	806-15-2206	660-705-7187	Charlotte Byrd	wdnl@gmail.com
1569741369	140-61-5848	308-845-2517	Stephen Cisneros	xufh.vuho@gmail.com
1888030079	595-62-5352	459-893-7727	Arthur Barrera	ucyp@gmail.com
2021317220	363-35-0756	601-244-5989	Debra Middleton	lhynil.ekdhngu@gmail.com
2114931102	143-38-7401	884-908-8137	Ebony Daniels	rcff@gmail.com

Users who did cycling

```
USE fithub;
SELECT A.Activity_type, U.User_Name, A.Calories_burnt, A.Distance_covered
FROM activity_tracker A
INNER JOIN User U
ON U.User_Id=A.User_Id
WHERE A.Activity_type='CYCLING';
```

Activity_type	User_Name	Calories_burnt	Distance_covered
cycling	Heath	324	3.24299
cycling	Robbie7	465	4.6526
cycling	Kendra278	296	2.96438
cycling	Robbie7	239	2.38884

Users who drank max litres of water

```
SELECT N.User_id, U.User_Name, W.litres
FROM water_intake W, nutrition_tracker N, user U
WHERE W.Tracking_id=N.Tracking_id
AND U.User_Id = N.User_Id
AND W.litres = (SELECT max(Litres) FROM water_intake);
```

User_id	User_Name	litres
4	Lawanda	7.91195

Change user name

```
UPDATE User
SET User_Name = 'Anny'
WHERE User_Name='Abel';
```

```
SELECT * FROM user;
```

User_Id	User_Name	User_DOB	User_phoneNo	User_mailId	User_Password	User_LoginId	BMI
0	Anny	2001-03-07	575-831-1865	xufh.vuho@gmail.com	epyv.tjvmsi	Jeanine	25
1	Erick5	1970-07-15	014-474-8711	pskm@gmail.com	wlkzw.gpncb	Tabatha	26
2	Janice11	2013-02-06	353-114-4212	wdnl@gmail.com	vmsm	Clinton	20
3	Gretchen2	1950-04-17	243-556-3888	pazi8@gmail.com	jrfb.gbrpvpq	Casey	28
4	Lawanda	1984-10-11	817-220-5362	cmrui34@gmail.com	tmttd	Alexis	25
5	Robbie7	2009-10-29	221-391-6541	kicotx6@gmail.com	vomv	Orlando	20

Select premium users

```
SELECT P.User_Id, P.User_Name
FROM user U, premium_user P
WHERE U.User_Id = P.User_Id;
```

User_Id	User_Name
0	Colby3
2	Janice11
4	Kristen3
6	Lawanda
8	Erick5