FITLIFE HUB

MILESTONE: LOGICAL MODEL (Relational Model)

STUDY_GROUP_42

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Percentage of Effort Contributed by Student1: 50%

Percentage of Effort Contributed by Student2: 50%

Signature of Student1: Deepana

Signature of Student2: Aishwariya

Submission Date: 10/29/2023

FITLIFE HUB

Relational Model:

1) User (<u>User_Id</u>, User_Name, User_DOB, User_phoneNo, User_mailId, User_Password, User_LoginId, BMI)
   Primary Key [<u>User_Id</u>]

2) Premium_User (<u>User_Id</u>, User_Name, User_DOB, User_phoneNo, User_mailId, User_Password, User_LoginId, BMI, *Counsellor_Id, Admin_Id, SSN*)
   Primary Key [<u>User_Id</u>]
   Foreign Key [*Counsellor_Id;* Referential: Medical counselling; NOT NULL
   Admin_Id, SSN; Referential: Fitness coach; NOT NULL]
   Foreign Key [*User_Id*; Referential: User; NOT NULL]

3) General_User (<u>User_Id</u>, User_Name, User_DOB, User_phoneNo, User_mailId, User_Password, User_LoginId, BMI)
   Primary Key [<u>User_Id</u>]
   Foreign Key [*User_Id*; Referential: User; NOT NULL]

4) Activity_Tracker (<u>Activity_id</u>, Activity_type, Calories_burnt, Hours, Step_counts, Distance_covered, date, *Admin_Id, User_Id*)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Admin_Id*; Referential: Administrator; NOT NULL]
   Foreign Key [*User_Id*; Referential: User; NOT NULL]

5) Activities (<u>Activity_id</u>, Activity_type, Calories_burnt, Hours, Step_counts, Distance_covered, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activity_Tracker; NOT NULL]

6) Exercise (<u>Activity_id</u>, Activity_type, Calories_burnt, Hours, Step_counts, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activity_Tracker; NOT NULL]

7) Jogging (<u>Activity_id,</u> Calories_burnt, Hours, Distance_covered, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activities; NOT NULL]

8) Swimming (<u>Activity_id,</u> Calories_burnt, Hours, Distance_covered, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activities; NOT NULL]

9) Cycling (<u>Activity_id,</u> Calories_burnt, Hours, Distance_covered, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activities; NOT NULL]

10) Walking (<u>Activity_id,</u> Calories_burnt, Hours, Distance_covered, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Activities; NOT NULL]

11) Full_body_workout (<u>Activity_id,</u> Calories_burnt, Hours, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Exercise; NOT NULL]

12) Upper_body_workout (<u>Activity_id,</u> Calories_burnt, Hours, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Exercise; NOT NULL]

13) Lower_body_workout (<u>Activity_id,</u>Calories_burnt, Hours, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Exercise; NOT NULL]

14) Cardio_workout (<u>Activity_id,</u>Calories_burnt, Hours, date)
   Primary Key [<u>Activity_id</u>]
   Foreign Key [*Activity_id;* Referential: Exercise; NOT NULL]

15) Nutrition_Tracker (<u>Tracking_Id</u>, Intake_time, *User_Id, Admin_id*)
   Primary Key [<u>Tracking_Id</u>]
   Foreign Key [*User_Id;* Referential: User; NOT NULL
   Admin_id; Referential: Administrator; NOT NULL]

16) Daily_Intake (<u>Tracking_Id</u>, Intake_time, Calories_taken, Macro_nutrients)
   Primary Key [<u>Tracking_Id</u>]
   Foreign Key [*Tracking_Id;* Referential: Nutrition_Tracker; NOT NULL]

17) Water_Intake (<u>Tracking_Id</u>, Intake_time, Litres)
   Primary Key [<u>Tracking_Id</u>]
   Foreign Key [*Tracking_Id;* Referential: Nutrition_Tracker; NOT NULL]

18) Administrator (<u>Admin_Id, SSN</u>, PhoneNo, DOB, EmailId, Name, Address)
   Primary Key [Admin_Id, SSN]

19) Social Connect (<u>Social_page_Id</u>, *<u>User_Id</u>*)
   Primary Key [Social_page_Id, UserId]
   Foreign Key [*User_Id*; Referential: User; NOT NULL]

20) System Admin (*<u>Admin_Id, SSN</u>*, PhoneNo, DOB, EmailId, Name, Address)
   Primary Key [Admin_Id, SSN]
   Foreign Key [*Admin_Id, SSN*; Referential: Administrator; NOT NULL]

21) Fitness Coach (*Admin_Id*, *SSN*, PhoneNo, DOB, EmailId, Name, Address)
Primary Key [Admin_Id, SSN]
Foreign Key [*Admin_Id, SSN*; Referential: Administrator; NOT NULL]

22) Medical Counselling (Counsellor_Id, SSN, Phone_Number, Name, EmailId)
Primary Key [Counsellor_Id, SSN]

23) Doctors (*Counsellor_Id, SSN*, Phone_Number, Name, EmailId, Specialization)
Primary Key [Counsellor_Id, SSN]
Foreign Key [*Counsellor_Id, SSN*; Referential: Medical Counselling; NOT NULL]

24) Dietician (*Counsellor_Id, SSN*, Phone_Number, Name, EmailId, Specialization)
Primary Key [Counsellor_Id, SSN]
Foreign Key [*Counsellor_Id, SSN*; Referential: Medical Counselling; NOT NULL]

25) Goal Setting (Setting_Id , Desired_BMI, *User_Id*)
Primary Key [Setting_Id]
Foreign Key [*User_Id*; Referential: User; NOT NULL]

26) Payment (BankAccountNumber, CardDetails, BankAddress, BankName, *User_Id*)
Primary Key [BankAccountNumber]
Foreign Key [*User_Id* ; Referential : User ; NOT NULL]

27) User Admin (*User_Id, Admin_Id, SSN*)
Primary Key [User_Id, Admin_Id, SSN]
Foreign Key [*User_Id* ; Referential : User ; NOT NULL]
Foreign Key [*Admin_Id, SSN*; Referential: Administrator; NOT NULL]

28) Medical Fitness (*Counsellor_Id, C_SSN, Admin_Id, A_SSN*)
Primary Key [Counsellor_Id, C_SSN, Admin_Id, A_SSN]
Foreign Key [*Counsellor_Id, C_SSN*; Referential: Medical Counselling; NOT NULL]
Foreign Key [*Admin_Id, SSN*; Referential: Administrator; NOT NULL]