

Fitness Tracker

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Roll no: 37

RMCA, A

TABLE DESIGN

Role Table

Field Name	Data Type	Constraints	Description
RoleID	INT	PRIMARY KEY	Unique role identifier
Rolename	VARCHAR	Not Null	Name of user role

User Table

Field Name	Data Type	Key Constraints	Description
UserID	INT	PRIMARY KEY	Unique user identifier
RoleID	INT	FOREIGN KEY	Reference user role
username	VARCHAR	Not Null	User's name
Password	VARCHAR	Not Null	Password for user
Email	VARCHAR	Not Null	Users' email address

User Account

Field Name	Data Type	Constraints	Description
AdminID	INT	PRIMARY KEY	Unique admin identifier
UserID	INT	FOREIGN KEY	Reference user table
trainerID	INT	FOREIGN KEY	Reference tr_nu table
nutritionistID	INT	FOREIGN KEY	Reference tr_nu table

TrainerNutritionist table

Field Name	DataType	Constraints	Description
TrainerID	INT	PRIMARY KEY	Unique trainer identifier
nutritionistID	INT	PRIMARY KEY	Unique nutritionist id
userID	INT	FOREIGN KEY	Reference tr_nu table
specialization	VARCHAR	Not Null	Specification of trainer and nutritionist

Product table

Field Name	DataType	Constraints	Description
ProductID	INT	PRIMARY KEY	Unique product identifier
Productname	VARCHAR	Not Null	Name of product
Description	Text	Not Null	Description of the product
Price	Decimal	Not Null	Price of the product
Stock Quantity	INT	Not Null	Quantity of product

Workout table

Field Name	DataType	Constraints	Description
WorkoutID	INT	PRIMARY KEY	Unique workout identifier
userID	INT	FOREIGN KEY	Reference user
TrainerID	INT	FOREIGN KEY	Reference tr_nu table
NutritionistID	INT	FOREIGN KEY	Reference tr_nu table
Workout Plan	Text	Not Null	Type of workouts
Workout schedule	Text	Not Null	Scheduling of workouts

Goal Table

Field Name	Data Type	Constraints	Description
GoalID	INT	PRIMARY KEY	Unique goal identifier
userID	INT	FOREIGN KEY	Reference user
Goal Description	Text	Not Null	Description of the Goal
TargetDate	Date	Not Null	Date to achieve the goal

NutritionPlan table

Field Name	Data Type	Constraints	Description
PlanID	INT	PRIMARY KEY	Unique plan identifier
nutritionistID	INT	FOREIGN KEY	Reference tr_nu table
userID	INT	FOREIGN KEY	Reference user table
Plan Details	Text		Details of nutrition

Meal Table

Field Name	Data Type	Constraints	Description
MealID	INT	PRIMARY KEY	Unique meal identifier
PlanID	INT	FOREIGN KEY	Reference nurtiplan table
Mealtype	VARCHAR	Not Null	Type of meal

Challenges Table

Field Name	Data Type	Constraints	Description
ChallengeID	INT	PRIMARY KEY	Unique challenge identifier
ChallengeName	VARCHAR	Not Null	Name of challenge
StartDate	Date	Not Null	Challenge Starting Date
EndDate	Date	Not Null	Challenge EndingDate