

Introduction to Database Systems

LIFTA

Database Schema Report

Team Number: 6

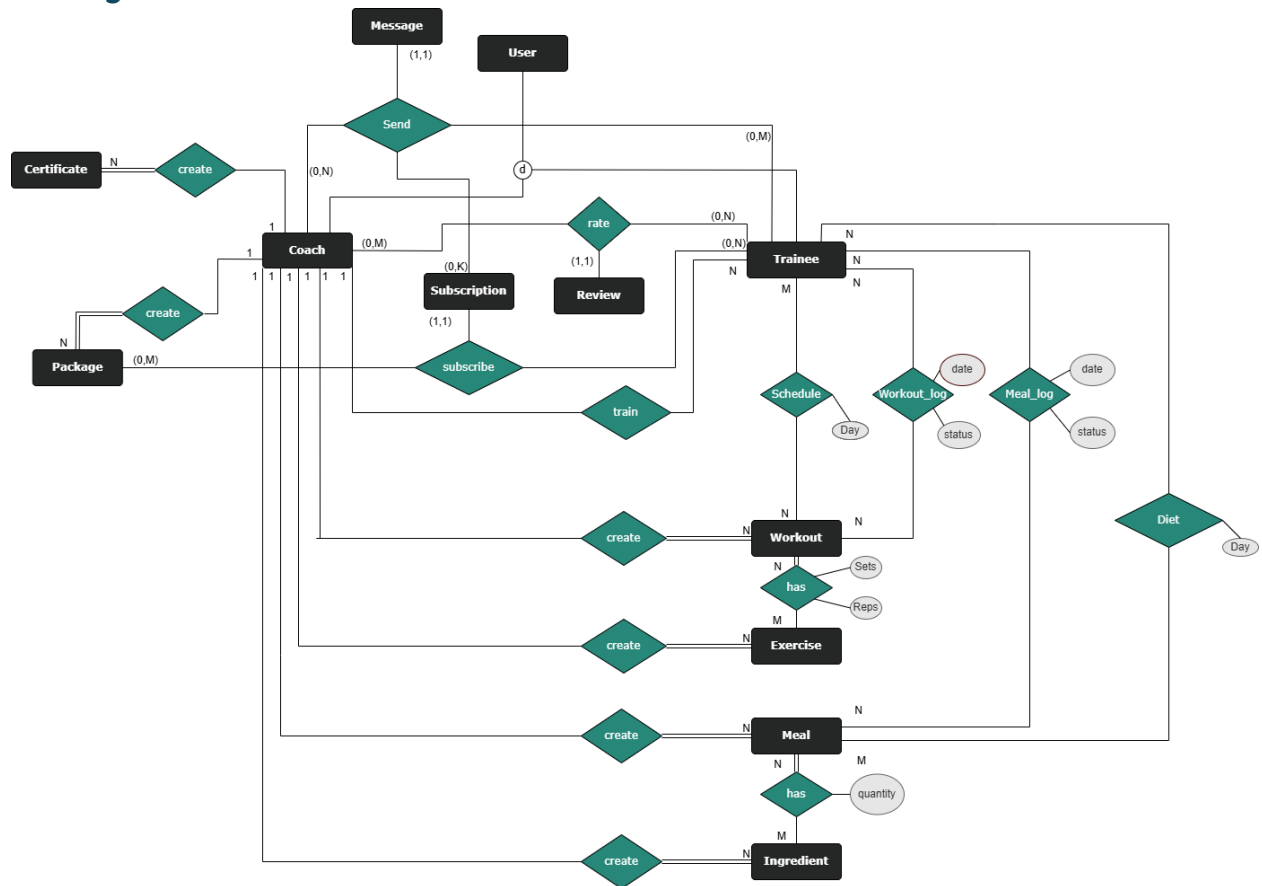
Team Members:

Name	Sec	BN
Alyaa Ali Abu El Yazeed Eissa	2	39
Anas Magdy Aied Aied	1	13
Omar Gamal Ahmed Ahmed	2	41
Shady Mohamed Mohamed Mostafa	1	26

Contact Info:

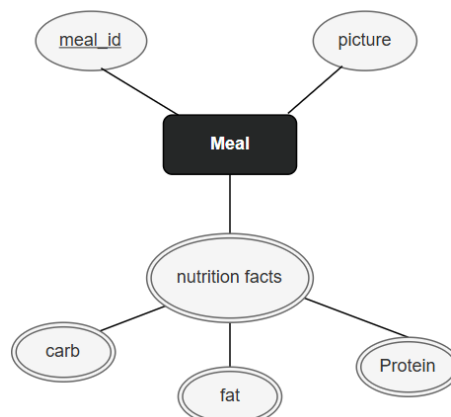
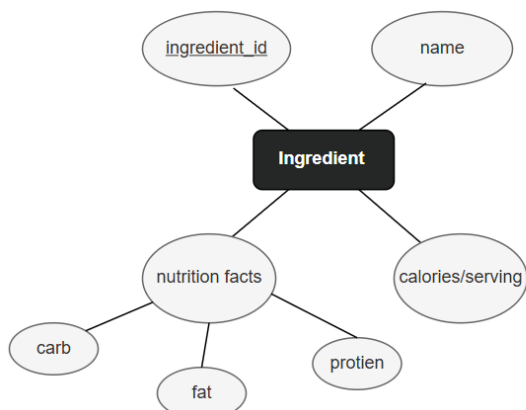
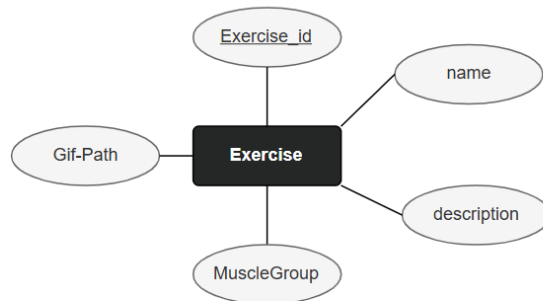
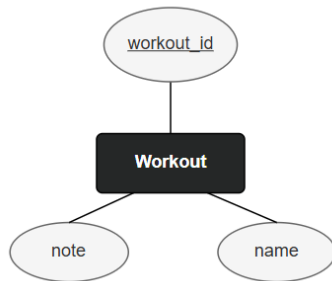
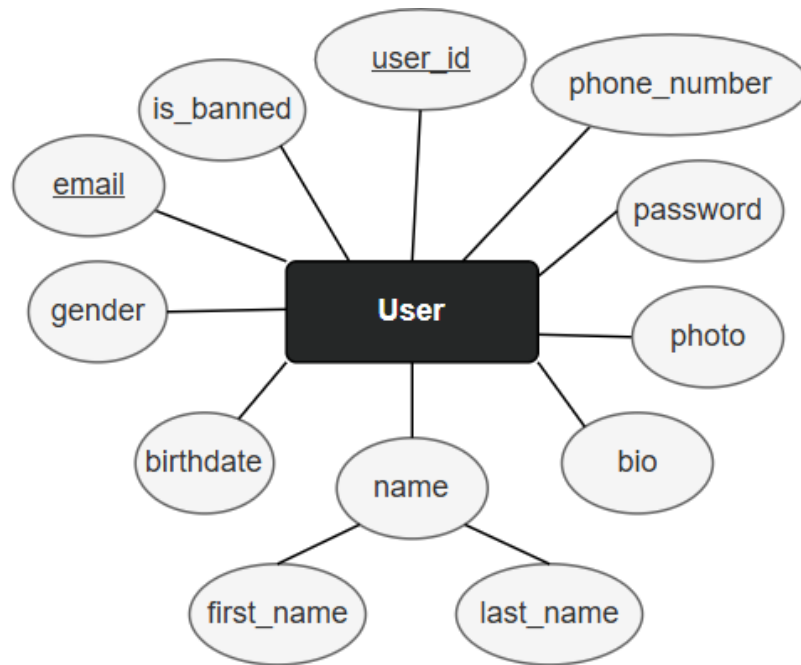
Name	email
Alyaa Ali	eissaalyaa@gmail.com
Anas Magdy	anasmagdy950@gmail.com
Omar Gamal	ogamal1011@gmail.com
Shady Mohamed	shadyshiko2004@gmail.com

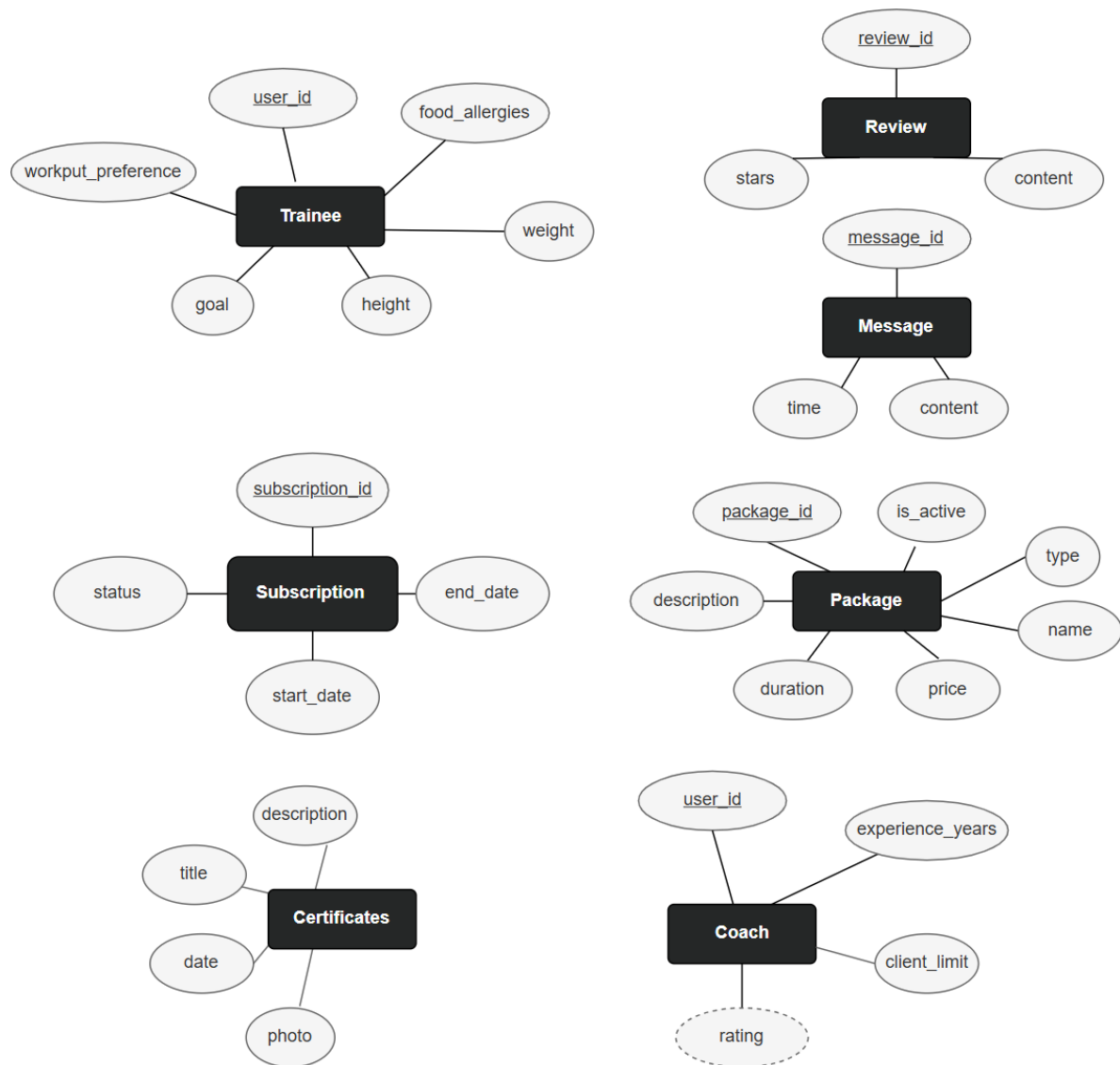
ER Diagram:



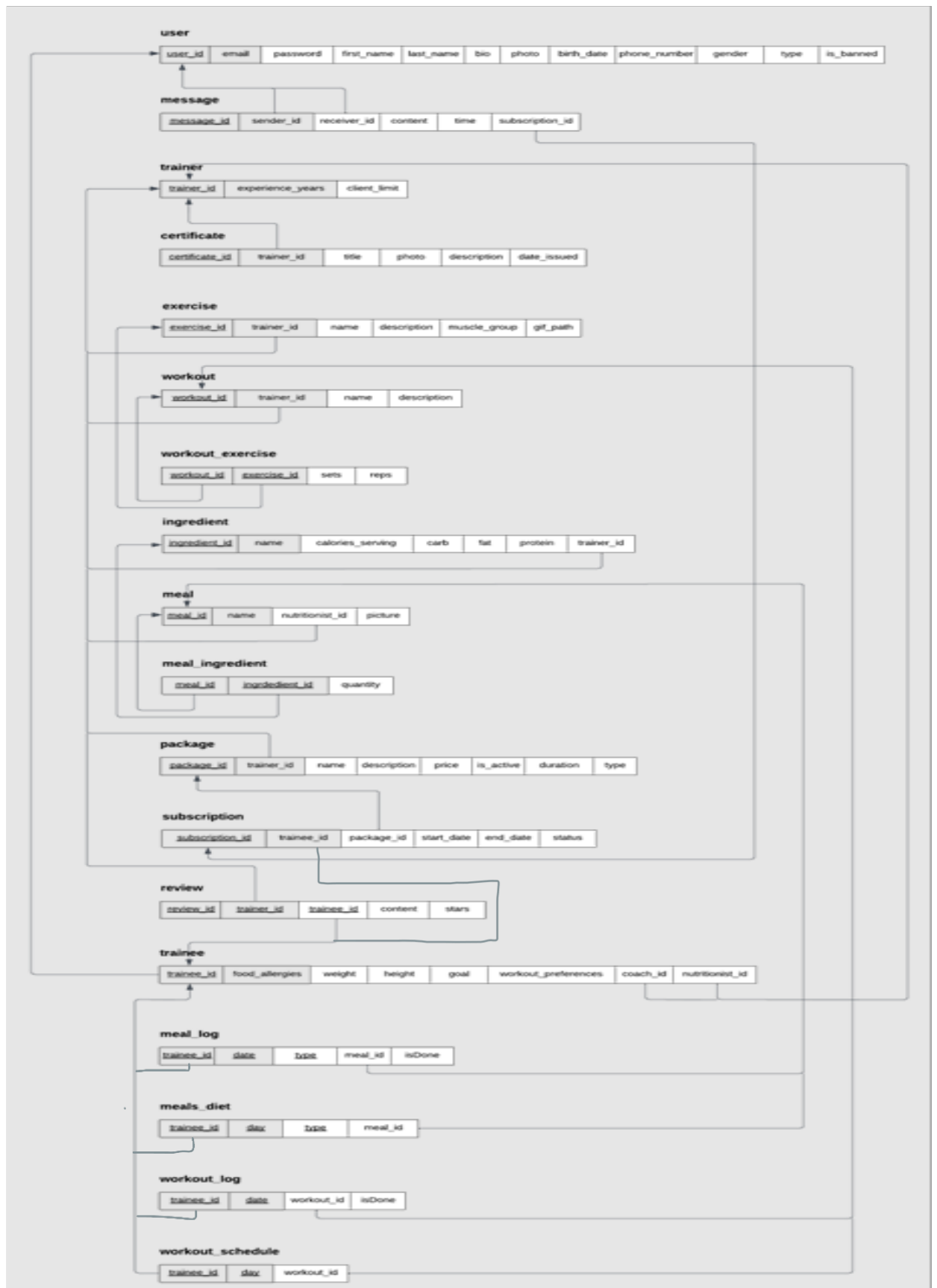
11/22/2024

Attributes:





Schema Diagram



Database Constraints

User

- **Primary Keys**
 1. `user_id`
 - **Foreign Keys**

No foreign keys in the `user` table.
 - **Unique**
 1. `email`
 - **Not Null**
 1. `first_name`
 2. `last_name`
 3. `type`
 4. `is_banned` (default: false)
-

Trainer

- **Primary Keys**
 1. `trainer_id`
 - **Foreign Keys**
 1. `FOREIGN KEY (trainer_id) → users (user_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE CASCADE`
 - **Not Null**
 1. `experience_year`
 2. `client_limit`
-

Trainee

- **Primary Keys**
 1. `trainee_id`
- **Foreign Keys**
 1. `FOREIGN KEY (coach_id) → trainer (trainer_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE SET NULL`
 2. `FOREIGN KEY (nutritionist_id) → trainer (trainer_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE SET NULL`
 3. `FOREIGN KEY (trainee_id) → users (user_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE CASCADE`
- **Not Null**

1. food_allergies
2. weight
3. height
4. goal
5. workout_preference

Certificates

- **Primary Keys**
 1. certificate_id
- **Foreign Keys**
 1. FOREIGN KEY (trainer_id) → trainer (trainer_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
- **Not Null**
 1. title
 2. date_issued

Package

- **Primary Keys**
 1. package_id
- **Foreign Keys**
 1. FOREIGN KEY (trainer_id) → trainer (trainer_id)
 - ON UPDATE CASCADE
 - ON DELETE RESTRICT
- **Unique**
 1. Combination of name & trainer_id
- **Not Null**
 1. price
 2. is_active
 3. duration
 4. type

Exercise

- **Primary Keys**
 1. exercise_id
- **Foreign Keys**
 1. FOREIGN KEY (trainer_id) → trainer (trainer_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
- **Not Null**

1. `trainer_id`
2. `name`
3. `muscle_group`

Workout

- **Primary Keys**
 1. `workout_id`
- **Foreign Keys**
 1. `FOREIGN KEY (trainer_id) → trainer (trainer_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE CASCADE`**Note:** Deletion cascades only if no active assignments exist.
- **Not Null**
 1. `trainer_id`
 2. `name`

Ingredient

- **Primary Keys**
 1. `ingredient_id`
- **Foreign Keys**
 1. `FOREIGN KEY (trainer_id) → trainer (trainer_id)`
 - `ON UPDATE NO ACTION`
 - `ON DELETE NO ACTION`
- **Not Null**
 1. `name`
 2. `calorie_serving`

Meal

- **Primary Keys**
 1. `meal_id`
 - **Foreign Keys**
 1. `FOREIGN KEY (nutritionist_id) → trainer (trainer_id)`
 - `ON UPDATE CASCADE`
 - `ON DELETE CASCADE`**Note:** Deletion cascades only if no active assignments exist.
 - **Not Null**
 1. `name`
 2. `nutritionist_id`
-

meal_ingredient

- **Primary Keys**
 1. meal_id
 2. ingredient_id
 - **Foreign Keys**
 1. FOREIGN KEY (ingredient_id) → ingredient (ingredient_id)
 - ON UPDATE CASCADE
 - ON DELETE RESTRICT
 2. FOREIGN KEY (meal_id) → meal (meal_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
 - **Not Null**
 1. quantity
-

meal_log

- **Primary Keys**
 1. type
 2. date
 3. trainee_id
 - **Foreign Keys**
 1. FOREIGN KEY (meal_id) → meal (meal_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
 2. FOREIGN KEY (trainee_id) → trainee (trainee_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
 - **Not Null**
 1. meal_id
 2. is_done
-

workouts_schedule

- **Primary Keys**
 1. user_id
- **Foreign Keys**
 1. FOREIGN KEY (trainee_id) → trainee (trainee_id)
 - ON UPDATE CASCADE
 - ON DELETE CASCADE
 2. FOREIGN KEY (workout_id) → workout (workout_id)
 - ON UPDATE CASCADE
 - ON DELETE RESTRICT
- **Not Null**

1. `workout_id`

Note: Days must be one of ['Friday', 'Saturday', etc.].

Workload

Alyaa Ali	<ul style="list-style-type: none">• Trainee view/mark as done current workout/meals• Trainee gives reviews• Trainer views reviews• Trainee/ Coach views package dashboard• All Admin functionalities
Anas Magdy	<ul style="list-style-type: none">• Users' profiles view/edit• Home page• Trainee browse coaches• Subscription requests• Authentication• Trainer views/remove his clients• Deactivate/activate packages
Omar Gamal	<ul style="list-style-type: none">• Workout/meals logs• Messages/chat• Sending subscriptions requests• Subscriptions expiration• Trainee view his memberships• Check coach's client limit
Shady Mohamed	<ul style="list-style-type: none">• Sign up• Create/edit/delete exercise/ingredient• Create/delete workout/meal• Trainer assigns meal/workout to trainees

	<ul style="list-style-type: none">• Add/edit/delete packages• Certificates• validations
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