FITNESS ALWAYS GYM

Database Design Project, spring 2021

Webster University Thailand

Sagar Thakur

**ID= 4167513**

Email: [sagarthakur12345679@gmail.com](mailto:sagarthakur12345679@gmail.com)

GitHub Link: https://github.com/Sagar6544/Fitness-Always-Gym

# PROJECT STATEMENT

As the database expert for Fitness Always Co. Ltd., I have been assigned to create a database for Fitness Always Gym that will allow members, admins, and staffs/trainers to see all the information about the gym. Moreover, it will allow them to view, add and remove members, admins, branches, staffs, trainers, and workout classes. It will also allow members to see workout classes that they have all by just a click of a button.

# DATA DESCRIPTION

# We have to interview many clients that are using Fitness Always Gym and gathered the following information:

# 1) In this database, all customer has their Admin, Gym membership, Mobile Phone number, Gym Staff details, workout class schedule; staff Id, Trainer Details workout class Id and Branches.

# 2) Each customer will get membership card after joining the gym.

# 3) Each customer need to give their private details and contact details.

# 4) Gym management will collect all details of the gym employees.

# 5) In, this database there will be the schedule of the work out class.

6) There will be the all details of staff and Trainer details.

7) There will be the connection of each member of with Branches.

# QUERIES REQUIRED

The completed system must be able to satisfy the following queries:

## A. For each Admin with member:

1) List the all details of the customer like address, street name, birthdate, contact and name.

2) List the customer id number.

3) List the all-personal information of the customer like weight, height, and personal details.

4) List the entry timing and the exit timing.

5) List the date joining.

## B. For Work out Class:

1. List the date and timing of the workout class.
2. List the workout class type.
3. List the workout class details.

## C. For the Staff:

1. List the Employee report.
2. List all the customer id and employee id details.
3. List the working hours.
4. List the Trainer report.
5. List the all salary details.

## D. For Trainer:

1. List the Trainer id.
2. List the Trainer name and Trainer details.

# ENTITY-RELATIONSHIP DIAGRAM

# TABLE DESCRIPTIONS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Contents | Type | Length | Required |
| EA\_First Name | Customer First Name | VCHAR | 40 |  |
| EA\_Last Name | Customer Last Name | VINT | 10 | YES |
| EA\_Phone | Customer contact Details | VINT | 13 |  |
| EA\_Email | Customer Email | VCHAR | 50 |  |
| EX\_Membership Card number | Customer Id number | VINT | 10 | YES |
| EX\_Work out class schedule | Workout class Timing | VCHAR | 40 |  |
| REP\_Employees Deatils | Working Details | VINT | 5 | YES |
| REP\_Employees ID | Employees ID number | VCHAR | 40 |  |
| REP\_Trainer | Trainer Teaching | VCHAR | 40 |  |
| Branches | Branch details | VINT | 3 | YES |
|  |  |  |  |  |

# QUERIES

**Inserting new Members**

INSERT INTO `member` (`id`, `member\_code`, `name`, `address`, `email`, `password`, `dob`, `gender`, `state\_id`, `city\_id`, `SSN`, `medical`, `tel`, `join\_date`, `diet`, `image`) VALUES ('143', '1234567', 'Aliha Bhandari', 'Bella Apartment', 'alihabhan@gmail.com', 'aliha1232', DATE('1998-08-04'), 'F', '200', '100', '5432326211234', 'OK', '0876565521', DATE('2020-08-04'), '2021-04-01', 'None');

**Showing Members with City and State**

SELECT m.id, m.member\_code, m.name, m.address,m.email, m.dob, m.gender, ct.city, st.state, m.SSN, m.medical, m.tel, m.join\_date, m.diet FROM `member` as m, city as ct, state as st WHERE m.city\_id = ct.id and m.state\_id = st.id

**Inserting new Branch**

INSERT INTO `branch` (`id`, `state`, `city`, `pincode`, `address`, `lolcation`) VALUES ('1', 'Bangkok', 'Bangkok', '1179882', 'Empire Tower', '');

**Showing Staffs and branch**

SELECT st.id, st.name, st.address, st.contact, st.gender, st.shift, br.address, st.experience FROM `staff` as st, branch as br WHERE st.branch\_id = br.id

**Inserting new trainer**

INSERT INTO `trainer` (`id`, `branch\_id`, `name`, `address`, `gender`, `contact`, `specialities`, `experience`, `age`, `image`) VALUES ('765', '2', 'Marko Niimaki', 'Webster University Thailand', 'Male', '0654321621', 'Heavy Lifting', '10 Years', '45', 'None');

**Showing trainers with branch**

SELECT tr.id, br.address, tr.name, tr.address, tr.gender, tr.contact, tr.specialities, tr.experience, tr.age  FROM `trainer`as tr, branch as br WHERE tr.branch\_id = br.id

**Showing admins with proper city and state**

SELECT ad.id, ad.name, ad.address, ad.mobile, ad.email, ad.dob, ad.gender, ct.city, st.state, ad.profile FROM admin as ad, city as ct, state as st WHERE ad.city\_id = ct.id and ad.state\_id = st.id

**Showing branches with proper city and state**

SELECT br.id, ct.city, st.state, br.pincode, br.address FROM branch as br, city as ct, state as st WHERE br.state = st.id and br.city = ct.id

# APPENDIX: DATABASE SCRIPT

CREATE TABLE `admin` (

`id` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`address` text NOT NULL,

`mobile` varchar(10) NOT NULL,

`email` varchar(40) NOT NULL,

`dob` varchar(15) NOT NULL,

`gender` varchar(6) NOT NULL,

`city\_id` varchar(20) NOT NULL,

`state\_id` varchar(20) NOT NULL,

`profile` varchar(100) NOT NULL

)

INSERT INTO `admin` (`id`, `name`, `address`, `mobile`, `email`, `dob`, `gender`, `city\_id`, `state\_id`, `profile`) VALUES

(1, 'Sagar Thakur', 'Lumpinni Place Sathorn, 124 Naradhiwat Rajanagarindra Rd, Thung Wat Don, Sathon, Bangkok 10120', '0892763289', 'sagarthakur@gmail.com', '17-4-1998', 'Male', '200', '300', ''),

(2, 'Sinjan Pokharel', 'Bella Serviced Apaertment, 4 Soi Naradhiwas Rajanagarindra 10, Thung Wat Don, Sathon, Bangkok 10120', '0678792631', 'sinjanpokharel@gmail.com', '12-1-1996', 'Male', '200', '300', ''),

(998, 'werwer', 'werwer', '23425656', 'werwer', '565665', 'sdfgf', '100', '200', 'dcxvdgd56');

CREATE TABLE `attendance` (

`id` int(11) NOT NULL,

`member\_code` varchar(10) NOT NULL,

`date` date NOT NULL,

`status` varchar(3) NOT NULL

) ;

CREATE TABLE `branch` (

`id` int(11) NOT NULL,

`state` varchar(50) NOT NULL,

`city` varchar(50) NOT NULL,

`pincode` varchar(12) NOT NULL,

`address` varchar(100) NOT NULL

) ;

INSERT INTO `branch` (`id`, `state`, `city`, `pincode`, `address`) VALUES

(1, '400', '300', '1179882', 'Empire Tower'),

(2, '400', '300', '1179882', 'Sukumvit');

CREATE TABLE `category` (

`id` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`status` varchar(3) NOT NULL

);

CREATE TABLE `city` (

`id` int(11) NOT NULL,

`state\_id` int(11) NOT NULL,

`city` varchar(60) NOT NULL

);

INSERT INTO `city` (`id`, `state\_id`, `city`) VALUES

(100, 200, 'Pokhara'),

(200, 300, 'Kathmandu'),

(300, 400, 'Bangkok');

CREATE TABLE `competition` (

`id` int(11) NOT NULL,

`title` varchar(100) NOT NULL,

`description` varchar(250) NOT NULL,

`date` date NOT NULL,

`status` varchar(20) NOT NULL,

`winner` varchar(20) NOT NULL,

`image` varchar(50) NOT NULL

) ;

CREATE TABLE `diet` (

`id` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`diet` varchar(50) NOT NULL,

`image` varchar(50) NOT NULL

) ;

CREATE TABLE `member` (

`id` int(11) NOT NULL,

`member\_code` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`address` varchar(100) NOT NULL,

`email` varchar(200) CHARACTER SET utf8 COLLATE utf8\_general\_ci NOT NULL,

`dob` date NOT NULL,

`gender` varchar(6) CHARACTER SET utf8 COLLATE utf8\_general\_ci NOT NULL,

`state\_id` varchar(3) NOT NULL,

`city\_id` varchar(5) NOT NULL,

`SSN` varchar(20) NOT NULL,

`medical` varchar(3) CHARACTER SET utf8 COLLATE utf8\_general\_ci DEFAULT NULL,

`tel` varchar(10) NOT NULL,

`join\_date` date NOT NULL,

`diet` varchar(1000) CHARACTER SET utf8 COLLATE utf8\_general\_ci DEFAULT NULL,

`image` varchar(100) CHARACTER SET utf8 COLLATE utf8\_general\_ci DEFAULT NULL

) ;

`member`

INSERT INTO `member` (`id`, `member\_code`, `name`, `address`, `email`, `dob`, `gender`, `state\_id`, `city\_id`, `SSN`, `medical`, `tel`, `join\_date`, `diet`, `image`) VALUES

(5, 999999, 'Aman Pathak', 'Asleep Sathorn ', 'aman@gmail.com', '2000-02-01', 'M', '300', '200', '99988898', 'Ok', '0987654321', '2020-02-03', 'Chicken', 'None');

CREATE TABLE `staff` (

`id` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`address` varchar(100) NOT NULL,

`contact` varchar(10) NOT NULL,

`gender` varchar(20) NOT NULL,

`shift` varchar(20) NOT NULL,

`branch\_id` varchar(20) NOT NULL,

`experience` varchar(20) NOT NULL

) ;

INSERT INTO `staff` (`id`, `name`, `address`, `contact`, `gender`, `shift`, `branch\_id`, `experience`) VALUES

(123, 'Chintan Vyaz', 'SSV Service Apartment', '098765454', 'Male', 'Morning', '1', '4 Years'),

(124, 'Prajesh Bhut', 'Silom Road', '0977866754', 'Male', 'Evening', '1', '2 Years');

CREATE TABLE `state` (

`id` int(11) NOT NULL,

`state` varchar(60) NOT NULL

) ;

INSERT INTO `state` (`id`, `state`) VALUES

(200, 'Gandaki'),

(300, 'Bagmati'),

(400, 'Bangkok');

CREATE TABLE `trainer` (

`id` int(11) NOT NULL,

`branch\_id` int(11) NOT NULL,

`name` varchar(50) NOT NULL,

`address` varchar(100) NOT NULL,

`gender` varchar(50) NOT NULL,

`contact` varchar(10) NOT NULL,

`specialities` varchar(50) NOT NULL,

`experience` varchar(10) NOT NULL,

`age` varchar(10) NOT NULL

) ;

INSERT INTO `trainer` (`id`, `branch\_id`, `name`, `address`, `gender`, `contact`, `specialities`, `experience`, `age`) VALUES

(765, 2, 'Marko Niimaki', 'Webster University Thailand', 'Male', '0654321621', 'Heavy Lifting', '10 Years', '45');

CREATE TABLE `workout` (

`class\_id` int(11) NOT NULL,

`title` varchar(100) NOT NULL,

`description` varchar(200) NOT NULL,

`start\_time` time NOT NULL,

`end\_time` time NOT NULL,

`room` varchar(100) NOT NULL,

`seats` int(100) NOT NULL

) ;

INSERT INTO `workout` (`class\_id`, `title`, `description`, `start\_time`, `end\_time`, `room`, `seats`) VALUES

(121, 'Zumba', 'Swimming Excercise', '12:00:00', '14:00:00', 'Swimming Pool 3', 20),

(324, 'Fast Fat Loss', 'Extensive Fat Loss by Cycling', '16:00:00', '18:00:00', 'Cycling Room 1', 40);

ALTER TABLE `admin`

ADD PRIMARY KEY (`id`);

ALTER TABLE `attendance`

ADD PRIMARY KEY (`id`);

ALTER TABLE `branch`

ADD PRIMARY KEY (`id`);

ALTER TABLE `category`

ADD PRIMARY KEY (`id`);

ALTER TABLE `city`

ADD PRIMARY KEY (`id`);

ALTER TABLE `competition`

ADD PRIMARY KEY (`id`);

ALTER TABLE `diet`

ADD PRIMARY KEY (`id`);

ALTER TABLE `member`

ADD PRIMARY KEY (`id`);

ALTER TABLE `staff`

ADD PRIMARY KEY (`id`);

ALTER TABLE `state`

ADD PRIMARY KEY (`id`);

ALTER TABLE `trainer`

ADD PRIMARY KEY (`id`);

ALTER TABLE `workout`

ADD PRIMARY KEY (`class\_id`);

COMMIT;