1. 動作可能になるようにデータベースを設計（全９テーブル）

//joys（ご褒美）テーブル

create table reward (reward\_id VARCHAR(4) PRIMARY KEY AUTO\_INCREMENT ,user\_id varchar (12),reward\_name varchar (20),reward\_detail varchar (1000),reward\_level\_id char (1));

//Joysレベル

CREATE TABLE reward\_level (reward\_level\_id char(1),reward\_level\_name varchar(4),required\_point int);

//達成評価テーブル

CREATE TABLE achievement(achievement\_id char(1),achievement\_name varchar(2));

//ユーザーテーブル

create table user(

  id VARCHAR(4) PRIMARY KEY AUTO\_INCREMENT,

  user\_id VARCHAR(12) UNIQUE NOT NULL,

  password VARCHAR(20) NOT NULL,

  nickname VARCHAR(20) DEFAULT 'ゲスト' NOT NULL,

  having\_point INT DEFAULT 0 NOT NULL,

  total\_point INT DEFAULT 0 NOT NULL,

  picture VARCHAR(100) DEFAULT 'profile.png'

);

//達成難易度テーブル

create table difficulty(

 difficulty\_id CHAR(1) PRIMARY KEY NOT NULL,

 difficulty\_name VARCHAR(5) NOT NULL,

 goal\_point INT NOT NULL

);

//目標テーブルを作成するSQL文

CREATE TABLE goal (

goal\_id VARCHAR(4) PRIMARY KEY AUTO\_INCREMENT NOT NULL,

user\_id VARCHAR(12) NOT NULL,

goal\_name VARCHAR(20) NOT NULL,

goal\_detail VARCHAR(1000) ,

tag\_id CHAR NOT NULL,

starting\_date DATE NOT NULL,

ending\_date DATE NOT NULL,

difficulty\_id CHAR NOT NULL,

term\_id CHAR NOT NULL

);

//目標結果テーブル

CREATE TABLE goal\_result (

id VARCHAR(4) PRIMARY KEY AUTO\_INCREMENT NOT NULL,

goal\_id VARCHAR(4) NOT NULL,

achievement\_day DATE,

achievement\_id CHAR NOT NULL

);

//tagテーブルを作成するSQL文

CREATE TABLE tag(

tag\_id CHAR PRIMARY KEY NOT NULL,

tag\_name VARCHAR(3) NOT NULL

);

//termテーブルを作成するSQL文

CREATE TABLE term(

term\_id CHAR PRIMARY KEY NOT NULL,

term\_name VARCHAR(4) NOT NULL

);

//INSERT文

//joysレベル

insert into reward\_level values ('1', 'ささやか', 10);

insert into reward\_level values ('2', '豪華', 50);

//達成評価

INSERT into achievement values('1','達成');

INSERT into achievement values('2','未達');

//達成難易度

insert into difficulty  values ('1','かんたん','2');

insert into difficulty values ('2','むずかしい','5');

//タグ

INSERT INTO tag (tag\_id, tag\_name) VALUES ('1','勉強');

INSERT INTO tag (tag\_id, tag\_name) VALUES ('2','仕事');

INSERT INTO tag (tag\_id, tag\_name) VALUES ('3','家事');

INSERT INTO tag (tag\_id, tag\_name) VALUES ('4','趣味');

INSERT INTO tag (tag\_id, tag\_name) VALUES ('5','その他');

//期間テーブル

INSERT INTO term (term\_id, term\_name) VALUES ('2', '繰り返し');

INSERT INTO term (term\_id, term\_name) VALUES ('1','終日');

INSERT INTO term (term\_id, term\_name) VALUES ('3','長期');

//サンプルデータINSERT

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('kawakami', 'アイス', '黒蜜をかける', '1');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('nakashima', '海外旅行', 'カンクン', '2');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('ishiguro', '海外旅行', '', '2');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('kawakami', '宅配ピザ', 'ドミノ', '1');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('joumaru', '大福', '', '1');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('nakashima', '猫カフェ', '', '1');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('watanabe', '知床', 'お盆休みに行く', '2');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('yamaguchi', 'フェス', 'チケット取る', '1');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('kawakami', 'アプリ課金', '出るまで引く', '2');

insert into reward(user\_id,reward\_name,reward\_detail, reward\_level\_id) values('kawakami', 'PC買い替え', '', '2');

insert into user values (null, 'ishiguro', 'aaaaa', 'ミッキー', 48,48,'profile.png');

insert into user values (null, 'kawakami', 'aaaaa', 'ミニー', 30, 40, 'profile.png');

insert into user values (null, 'joumaru', 'aaaaa', 'ドナルド', 7, 30, 'profile.png');

insert into user (user\_id,password)values ('nakashima', 'aaaaa');

insert into user (user\_id,password,nickname, having\_point, total\_point)values ('yamaguchi', 'aaaaa', 'グーフィー',4,10);

insert into user (user\_id,password,nickname, having\_point, total\_point)values ('watanabe', 'aaaaa', 'デイジー',2,8);

INSERT INTO goal (user\_id ,goal\_name, goal\_detail, tag\_id, starting\_date, ending\_date, difficulty\_id, term\_id) VALUES ('ishiguro', '顔を洗う', '朝やる', '1', '2022-6-30', '2022-6-30', '1', '1');

INSERT INTO goal (user\_id ,goal\_name, goal\_detail, tag\_id, starting\_date, ending\_date, difficulty\_id, term\_id) VALUES (' ishiguro ', '靴を磨く', '朝やる', '3', '2022-6-30', '2022-7-30', '1', '3');

INSERT INTO goal (user\_id ,goal\_name, goal\_detail, tag\_id, starting\_date, ending\_date, difficulty\_id, term\_id) VALUES (' ishiguro ', '犬の散歩する', '朝行く', '4', '2022-6-30', '2022-7-3', '1', '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('1', '2022-06-30', '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('2', null, '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('3', '2022-06-30', '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('3', '2022-07-1', '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('3', '2022-07-2', '2');

INSERT INTO goal\_result(goal\_id, achievement\_day, achievement\_id) VALUES ('3', '2022-07-3', '2');