drop table if exists customer;

create table customer

(

id int primary key,

name varchar(30),

email varchar(50)

);

drop table if exists bike;

create table bike

(

id int primary key,

model varchar(50),

category varchar(50),

price\_per\_hour decimal,

price\_per\_day decimal,

status varchar(20)

);

drop table if exists rental;

create table rental

(

id int primary key,

customer\_id int references customer(id),

bike\_id int references bike(id),

start\_timestamp timestamp,

duration int,

total\_paid decimal

);

drop table if exists membership\_type;

create table membership\_type

(

id int primary key,

name varchar(50),

description varchar(500),

price decimal

);

drop table if exists membership;

create table membership

(

id int primary key,

membership\_type\_id int references membership\_type(id),

customer\_id int references customer(id),

start\_date date,

end\_date date,

total\_paid decimal

);

insert into customer values(1, 'John Doe', 'john.doe@example.com');

insert into customer values(2, 'Alice Smith', 'alice.smith@example.com');

insert into customer values(3, 'Bob Johnson', 'bob.johnson@example.com');

insert into customer values(4, 'Eva Brown', 'eva.brown@example.com');

insert into customer values(5, 'Michael Lee', 'michael.lee@example.com');

insert into customer values(6, 'Sarah White', 'sarah.white@example.com');

insert into customer values(7, 'David Wilson', 'david.wilson@example.com');

insert into customer values(8, 'Emily Davis', 'emily.davis@example.com');

insert into customer values(9, 'Daniel Miller', 'daniel.miller@example.com');

insert into customer values(10, 'Olivia Taylor', 'olivia.taylor@example.com');

insert into bike values(1, 'Mountain Bike 1' ,'mountain bike' ,10.00 ,50.00 ,'available');

insert into bike values(2, 'Road Bike 1' ,'road bike',12.00 ,60.00 ,'available');

insert into bike values(3, 'Hybrid Bike 1' ,'hybrid' ,8.00 ,40.00 ,'rented');

insert into bike values(4, 'Electric Bike 1' ,'electric',15.00 ,75.00 ,'available');

insert into bike values(5, 'Mountain Bike 2' ,'mountain bike' ,10.00 ,50.00 ,'out of service');

insert into bike values(6, 'Road Bike 2' ,'road bike',12.00 ,60.00 ,'available');

insert into bike values(7, 'Hybrid Bike 2' ,'hybrid' ,8.00 ,40.00 ,'out of service');

insert into bike values(8, 'Electric Bike 2' ,'electric',15.00 ,75.00 ,'available');

insert into bike values(9, 'Mountain Bike 3' ,'mountain bike' ,10.00 ,50.00 ,'rented');

insert into bike values(10, 'Road Bike 3' ,'road bike',12.00 ,60.00 ,'available');

insert into rental values(1, 1, 1, '2022-11-01 10:00:00', 240, 50.00);

insert into rental values(2, 1, 1, '2022-11-02 10:00:00', 245, 50.00);

insert into rental values(3, 1, 1, '2022-11-03 10:00:00', 250, 50.00);

insert into rental values(4, 1, 1, '2022-11-04 10:00:00', 235, 50.00);

insert into rental values(5, 1, 1, '2022-12-05 10:00:00', 155, 50.00);

insert into rental values(6, 2, 2, '2022-12-08 11:00:00', 250, 60.00);

insert into rental values(7, 3, 3, '2022-12-13 12:00:00', 245, 40.00);

insert into rental values(8, 1, 1, '2023-01-05 10:00:00', 240, 50.00);

insert into rental values(9, 2, 2, '2023-01-08 11:00:00', 235, 60.00);

insert into rental values(10, 3, 3, '2023-02-13 12:00:00', 245, 40.00);

insert into rental values(11, 1, 1, '2023-03-05 10:00:00', 250, 50.00);

insert into rental values(12, 2, 2, '2023-03-08 11:00:00', 355, 60.00);

insert into rental values(13, 3, 3, '2023-04-13 12:00:00', 240, 40.00);

insert into rental values(14, 1, 1, '2023-04-01 10:00:00', 235, 50.00);

insert into rental values(15, 1, 6, '2023-05-01 10:00:00', 245, 60.00);

insert into rental values(16, 1, 2, '2023-05-01 10:00:00', 250, 60.00);

insert into rental values(17, 1, 3, '2023-06-01 10:00:00', 235, 40.00);

insert into rental values(18, 1, 4, '2023-06-01 10:00:00', 255, 75.00);

insert into rental values(19, 1, 5, '2023-07-01 10:00:00', 240, 50.00);

insert into rental values(20, 2, 2, '2023-07-02 11:00:00', 445, 60.00);

insert into rental values(21, 3, 3, '2023-07-03 12:00:00', 250, 40.00);

insert into rental values(22, 4, 4, '2023-08-04 13:00:00', 235, 75.00);

insert into rental values(23, 5, 5, '2023-08-05 14:00:00', 555, 50.00);

insert into rental values(24, 6, 6, '2023-09-06 15:00:00', 240, 60.00);

insert into rental values(25, 7, 7, '2023-09-07 16:00:00', 245, 40.00);

insert into rental values(26, 8, 8, '2023-09-08 17:00:00', 250, 75.00);

insert into rental values(27, 9, 9, '2023-10-09 18:00:00', 335, 50.00);

insert into rental values(28, 10, 10, '2023-10-10 19:00:00', 255, 60.00);

insert into rental values(29, 10, 1, '2023-10-10 19:00:00', 240, 50.00);

insert into rental values(30, 10, 2, '2023-10-10 19:00:00', 245, 60.00);

insert into rental values(31, 10, 3, '2023-10-10 19:00:00', 250, 40.00);

insert into rental values(32, 10, 4, '2023-10-10 19:00:00', 235, 75.00);

insert into membership\_type values(1,'Basic Monthly', 'Unlimited rides with non-electric bikes. Renews monthly.', 100.00);

insert into membership\_type values(2,'Basic Annual', 'Unlimited rides with non-electric bikes. Renews annually.',500.00);

insert into membership\_type values(3,'Premium Monthly', 'Unlimited rides with all bikes. Renews monthly.', 200.00);

insert into membership values(1, 2, 3, '2023-08-01', '2023-08-31', 500.00);

insert into membership values(2, 1, 2, '2023-08-01', '2023-08-31', 100.00);

insert into membership values(3, 3, 4, '2023-08-01', '2023-08-31', 200.00);

insert into membership values(4, 1, 1, '2023-09-01', '2023-09-30', 100.00);

insert into membership values(5, 2, 2, '2023-09-01', '2023-09-30', 500.00);

insert into membership values(6, 3, 3, '2023-09-01', '2023-09-30', 200.00);

insert into membership values(7, 1, 4, '2023-10-01', '2023-10-31', 100.00);

insert into membership values(8, 2, 5, '2023-10-01', '2023-10-31', 500.00);

insert into membership values(9, 3, 3, '2023-10-01', '2023-10-31', 200.00);

insert into membership values(10, 3, 1, '2023-11-01', '2023-11-30', 200.00);

insert into membership values(11, 2, 5, '2023-11-01', '2023-11-30', 500.00);

insert into membership values(12, 1, 2, '2023-11-01', '2023-11-30', 100.00);

select \* from customer;

select \* from bike;

select \* from rental;

select \* from membership\_type;

select \* from membership;