TABLES

```
Drop table schedule_line;
Drop table schedule_station;
Drop table transaction;
Drop table trip;
Drop table line_station;
Drop table station;
Drop table line;
Drop table card;
Drop table discount;
Drop table rider;

create table rider(
account_id int,
email varchar2(255),
pass varchar2(255),
rider_name varchar2(255),
age int,
primary key (account_id)
);
Insert into rider values(1, 'hamad@umbc.edu', 'badpassword', 'Hamad', 10);
Insert into rider values(2, 'Nick@umbc.edu', 'goodpassword', 'Nick', 30);
Insert into rider values(3, 'Palak@umbc.edu', 'verygoodpassword', 'Palak', 70);

create table discount(
disc_id int,
disc_age int,
flat_rate_discounted number,
primary key (disc_id)
);
insert into discount values(1,0, 15.00);
insert into discount values(2,12, 13.50);
insert into discount values(3,65, 12.00);

create table card(
card_id int,
account_id int,
balance number,
disc_id int,
primary key(card_id),
foreign key(account_id) references rider(account_id),
foreign key(disc_id) references discount(disc_id)
);
insert into card values (1,1,30,2);
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insert into card values (2,2,70,1);
insert into card values (3,3,110,3);
Insert into card values (4,3,50,3);

create table line(
line_id int,
line_name varchar(30),
Numofstation int,
primary key (line_id)
);
Insert into line values (10,'Red Line', 3);
Insert into line values(20,'Blue Line', 5);
Insert into line values (30,'Yellow Line', 4);

create table station(
station_id int,
station_name varchar2(255),
station_address varchar2(255),
station_status varchar(255),
primary key (station_id)
);
Insert into station values (1, 'Maryland', 'Rockville', 'Open');
insert into station values (2, 'Capitol', 'District of Columbia', 'Open');
Insert into station values (3, 'School', 'University of Maryland', 'Open');
insert into station values (4, 'Harbor', 'National Harbor', 'Open');
Insert into station values (5, 'Airport', 'Reagan National Airport', 'Open');
Insert into station values (6, 'Justice', 'Judiciary Square ', 'Open');
Insert into station values (7, 'Green', 'National Mall', 'Open');
insert into station values (8, 'Business','Union Station' , 'Open');
Insert into station values (9, 'Virginia' , 'Alexandria' , 'Closed');
Insert into station values (10, 'Old Town' , 'George Town' , 'Open');


Create table line_station(
line_id int,
station_id int,
sequence_num int,
Primary key (line_id,station_id),
foreign key(line_id) references line(line_id),
foreign key(station_id) references station(station_id)
);
Insert into line_station values (10, 1, 1);
Insert into line_station values (10, 2, 2);
Insert into line_station values (10, 3, 3);
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```sql
Insert into line_station values (20, 4, 1);
Insert into line_station values (20, 5, 2);
Insert into line_station values (20,6, 3);
Insert into line_station values (20, 7, 4);
Insert into line_station values (20, 8, 5);
Insert into line_station values (30,1, 1);
Insert into line_station values (30, 2, 2);
Insert into line_station values (30, 8, 3);
Insert into line_station values (30, 10, 4);

create table trip (
trip_id int,
card_id int,
enter_st_name varchar(30) ,
exit_st_name varchar(30),
entrance_time timestamp,
exit_time timestamp,
trip_cost number,
discount number,
primary key(trip_id),
foreign key(card_id) references card(card_id)
);
insert into trip values (1, 1, 'Generic Station Name', 'Generic Station Name', timestamp
'2020-03-01 08:30:00.000', timestamp '2020-03-01 08:55:00.000', 15.00, 0.00);
insert into trip values (2, 2, 'Generic Station Name', 'Generic Station Name', timestamp
'2020-03-15 12:00:00.000', timestamp '2020-03-15 12:30:00.000', 5.00, 10.00);
insert into trip values (3, 3, 'Generic Station Name', 'Generic Station Name', timestamp
'2020-03-10 09:00:00.000', timestamp '2020-03-10 14:00:00.000', 15.00, 0.00);
insert into trip values (4, 3, 'Generic Station Name', 'Generic Station Name', timestamp
'2020-03-30 09:00:00.000', timestamp '2020-03-30 10:00:00.000', 10.00, 5.00);

create table transaction(
transaction_id int,
card_id int,
transaction_time timestamp,
amount_added number,
primary key(transaction_id),
foreign key(card_id) references card(card_id)
);
insert into transaction values(1, 1, timestamp '2020-03-03 10:25:00.000', 20);
insert into transaction values(2, 2, timestamp '2020-03-16 06:02:00.000', 60);
insert into transaction values(3, 3, timestamp '2020-03-30 04:46:00.000', 100);
insert into transaction values(4, 1, timestamp '2019-07-03 02:36:00.000', 20);
insert into transaction values(5, 1, timestamp '2020-06-09 05:04:00.000', 100);
```

insert into transaction values(6, 2, timestamp '2020-08-08 12:30:00.000', 40);

create table schedule_station(
station_id int,
line_sched_id int,
direction varchar(5),
train_time interval day to second,
Primary key (station_id, line_sched_id),
foreign key (station_id) references station(station_id),
foreign key (line_sched_id) references schedule_line(line_sched_id)
);
Insert into schedule_station values (1, 1, 'North', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (2, 1, 'North', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (3, 1, 'North', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (4, 1, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (1, 2, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (2, 2, 'North', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (3, 2, 'North', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (4, 2, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (1, 3, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (2, 3, 'North', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (3, 3, 'North', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (4, 3, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (1, 4, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (2, 4, 'North', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (3, 4, 'North', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (4, 4, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (1, 5, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (2, 5, 'North', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (3, 5, 'North', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (4, 5, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (1, 6, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (2, 6, 'North', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (3, 6, 'North', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (4, 6, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (1, 7, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (2, 7, 'North', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (3, 7, 'North', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (4, 7, 'North', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (1, 8, 'North', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (2, 8, 'North', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (3, 8, 'North', (interval '0 11:20:00.00' day to second));

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Insert into schedule_station values (4, 8, 'North', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (1, 9, 'North', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (2, 9, 'North', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (3, 9, 'North', (interval '0 11:50:00.00' day to second));
Insert into schedule_station values (4, 9, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (1, 10, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (2, 10, 'North', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (3, 10, 'North', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (4, 10, 'North', (interval '0 12:30:00.00' day to second));
Insert into schedule_station values (4, 11, 'South', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (3, 11, 'South', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (2, 11, 'South', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (1, 11, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (4, 12, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (3, 12, 'South', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (2, 12, 'South', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (1, 12, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (4, 13, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (3, 13, 'South', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (2, 13, 'South', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (1, 13, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (4, 14, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (3, 14, 'South', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (2, 14, 'South', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (1, 14, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (4, 15, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (3, 15, 'South', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (2, 15, 'South', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (1, 15, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (4, 16, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (3, 16, 'South', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (2, 16, 'South', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (1, 16, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (4, 17, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (3, 17, 'South', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (2, 17, 'South', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (1, 17, 'South', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (4, 18, 'South', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (3, 18, 'South', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (2, 18, 'South', (interval '0 11:20:00.00' day to second));
Insert into schedule_station values (1, 18, 'South', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (4, 19, 'South', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (3, 19, 'South', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (2, 19, 'South', (interval '0 11:50:00.00' day to second));
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Insert into schedule_station values (1, 19, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (4, 20, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (3, 20, 'South', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (2, 20, 'South', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (1, 20, 'South', (interval '0 12:30:00.00' day to second));
Insert into schedule_station values (4, 21, 'North', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (5, 21, 'North', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (6, 21, 'North', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (7, 21, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (8, 21, 'North', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (4, 22, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (5, 22, 'North', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (6, 22, 'North', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (7, 22, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (8, 22, 'North', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (4, 23, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (5, 23, 'North', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (6, 23, 'North', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (7, 23, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (8, 23, 'North', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (4, 24, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (5, 24, 'North', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (6, 24, 'North', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (7, 24, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (8, 24, 'North', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (4, 25, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (5, 25, 'North', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (6, 25, 'North', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (7, 25, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (8, 25, 'North', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (4, 26, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (5, 26, 'North', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (6, 26, 'North', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (7, 26, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (8, 26, 'North', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (4, 27, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (5, 27, 'North', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (6, 27, 'North', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (7, 27, 'North', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (8, 27, 'North', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (4, 28, 'North', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (5, 28, 'North', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (6, 28, 'North', (interval '0 11:20:00.00' day to second));
Insert into schedule_station values (7, 28, 'North', (interval '0 11:30:00.00' day to second));
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Insert into schedule_station values (8, 28, 'North', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (4, 29, 'North', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (5, 29, 'North', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (6, 29, 'North', (interval '0 11:50:00.00' day to second));
Insert into schedule_station values (7, 29, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (8, 29, 'North', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (4, 30, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (5, 30, 'North', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (6, 30, 'North', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (7, 30, 'North', (interval '0 12:30:00.00' day to second));
Insert into schedule_station values (8, 31, 'South', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (7, 31, 'South', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (6, 31, 'South', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (5, 31, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (4, 31, 'South', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (8, 32, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (7, 32, 'South', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (6, 32, 'South', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (5, 32, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (4, 32, 'South', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (8, 33, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (7, 33, 'South', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (6, 33, 'South', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (5, 33, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (4, 33, 'South', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (8, 34, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (7, 34, 'South', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (6, 34, 'South', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (5, 34, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (4, 34, 'South', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (8, 35, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (7, 35, 'South', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (6, 35, 'South', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (5, 35, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (4, 35, 'South', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (8, 36, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (7, 36, 'South', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (6, 36, 'South', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (5, 36, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (4, 36, 'South', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (8, 37, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (7, 37, 'South', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (6, 37, 'South', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (5, 37, 'South', (interval '0 11:00:00.00' day to second));
```

Insert into schedule_station values (4, 37, 'South', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (8, 38, 'South', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (7, 38, 'South', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (6, 38, 'South', (interval '0 11:20:00.00' day to second));
Insert into schedule_station values (5, 38, 'South', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (4, 38, 'South', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (8, 39, 'South', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (7, 39, 'South', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (6, 39, 'South', (interval '0 11:50:00.00' day to second));
Insert into schedule_station values (5, 39, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (4, 39, 'South', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (8, 40, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (7, 40, 'South', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (6, 40, 'South', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (5, 40, 'South', (interval '0 12:30:00.00' day to second));
Insert into schedule_station values (4, 40, 'South', (interval '0 12:40:00.00' day to second));
Insert into schedule_station values (1, 41, 'North', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (2, 41, 'North', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (8, 41, 'North', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (10, 41, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (1, 42, 'North', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (2, 42, 'North', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (8, 42, 'North', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (10, 42, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (1, 43, 'North', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (2, 43, 'North', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (8, 43, 'North', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (10, 43, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (1, 44, 'North', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (2, 44, 'North', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (8, 44, 'North', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (10, 44, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (1, 45, 'North', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (2, 45, 'North', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (8, 45, 'North', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (10, 45, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (1, 46, 'North', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (2, 46, 'North', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (8, 46, 'North', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (10, 46, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (1, 47, 'North', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (2, 47, 'North', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (8, 47, 'North', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (10, 47, 'North', (interval '0 11:00:00.00' day to second));

```
Insert into schedule_station values (1, 48, 'North', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (2, 48, 'North', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (8, 48, 'North', (interval '0 11:20:00.00' day to second));
Insert into schedule_station values (10, 48, 'North', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (1, 49, 'North', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (2, 49, 'North', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (8, 49, 'North', (interval '0 11:50:00.00' day to second));
Insert into schedule_station values (10, 49, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (1, 50, 'North', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (2, 50, 'North', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (8, 50, 'North', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (10, 50, 'North', (interval '0 12:30:00.00' day to second));
Insert into schedule_station values (10, 51, 'South', (interval '0 7:30:00.00' day to second));
Insert into schedule_station values (8, 51, 'South', (interval '0 7:40:00.00' day to second));
Insert into schedule_station values (2, 51, 'South', (interval '0 7:50:00.00' day to second));
Insert into schedule_station values (1, 51, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (10, 52, 'South', (interval '0 8:00:00.00' day to second));
Insert into schedule_station values (8, 52, 'South', (interval '0 8:10:00.00' day to second));
Insert into schedule_station values (2, 52, 'South', (interval '0 8:20:00.00' day to second));
Insert into schedule_station values (1, 52, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (10, 53, 'South', (interval '0 8:30:00.00' day to second));
Insert into schedule_station values (8, 53, 'South', (interval '0 8:40:00.00' day to second));
Insert into schedule_station values (2, 53, 'South', (interval '0 8:50:00.00' day to second));
Insert into schedule_station values (1, 53, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (10, 54, 'South', (interval '0 9:00:00.00' day to second));
Insert into schedule_station values (8, 54, 'South', (interval '0 9:10:00.00' day to second));
Insert into schedule_station values (2, 54, 'South', (interval '0 9:20:00.00' day to second));
Insert into schedule_station values (1, 54, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (10, 55, 'South', (interval '0 9:30:00.00' day to second));
Insert into schedule_station values (8, 55, 'South', (interval '0 9:40:00.00' day to second));
Insert into schedule_station values (2, 55, 'South', (interval '0 9:50:00.00' day to second));
Insert into schedule_station values (1, 55, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (10, 56, 'South', (interval '0 10:00:00.00' day to second));
Insert into schedule_station values (8, 56, 'South', (interval '0 10:10:00.00' day to second));
Insert into schedule_station values (2, 56, 'South', (interval '0 10:20:00.00' day to second));
Insert into schedule_station values (1, 56, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (10, 57, 'South', (interval '0 10:30:00.00' day to second));
Insert into schedule_station values (8, 57, 'South', (interval '0 10:40:00.00' day to second));
Insert into schedule_station values (2, 57, 'South', (interval '0 10:50:00.00' day to second));
Insert into schedule_station values (1, 57, 'South', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (10, 58, 'South', (interval '0 11:00:00.00' day to second));
Insert into schedule_station values (8, 58, 'South', (interval '0 11:10:00.00' day to second));
Insert into schedule_station values (2, 58, 'South', (interval '0 11:20:00.00' day to second));
Insert into schedule_station values (1, 58, 'South', (interval '0 11:30:00.00' day to second));
```

Insert into schedule_station values (10, 59, 'South', (interval '0 11:30:00.00' day to second));
Insert into schedule_station values (8, 59, 'South', (interval '0 11:40:00.00' day to second));
Insert into schedule_station values (2, 59, 'South', (interval '0 11:50:00.00' day to second));
Insert into schedule_station values (1, 59, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (10, 60, 'South', (interval '0 12:00:00.00' day to second));
Insert into schedule_station values (8, 60, 'South', (interval '0 12:10:00.00' day to second));
Insert into schedule_station values (2, 60, 'South', (interval '0 12:20:00.00' day to second));
Insert into schedule_station values (1, 60, 'South', (interval '0 12:30:00.00' day to second));

```
create table schedule_line(
line_sched_id int,
line_id int,
direction varchar(5),
stop_1 interval day to second,
stop_2 interval day to second,
stop_3 interval day to second,
stop_4 interval day to second,
stop_5  interval day to second,

primary key (line_sched_id),
foreign key (line_id) references line(line_id)
);
```

insert into schedule_line values (1,10, 'North',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),null);

insert into schedule_line values (2,10, 'North',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),'0 8:30:00.00' day to second),null);

insert into schedule_line values (3,10, 'North',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),'9:00:00.00' day to second),null);

insert into schedule_line values (4,10, 'North',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),null);

insert into schedule_line values (5,10, 'North',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),null);

insert into schedule_line values (6,10, 'North',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),null);

insert into schedule_line values (7,10, 'North',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),null);

insert into schedule_line values (8,10, 'North',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),null);

insert into schedule_line values (9,10, 'North',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),null);

insert into schedule_line values (10,10, 'North',(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:00.00' day to second),null);

insert into schedule_line values (11,10, 'South',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),null);

insert into schedule_line values (12,10, 'South',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),(interval '0 8:30:00.00' day to second),null);

insert into schedule_line values (13,10, 'South',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),(interval '0 9:00:00.00' day to second),null);

insert into schedule_line values (14,10, 'South',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),null);

insert into schedule_line values (15,10, 'South',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),null);

insert into schedule_line values (16,10, 'South',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),null);

insert into schedule_line values (17,10, 'South',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),null);

insert into schedule_line values (18,10, 'South',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),null);

insert into schedule_line values (19,10, 'South',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),null);

insert into schedule_line values (20,10, 'South',(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:00.00' day to second),null);

insert into schedule_line values (21,20, 'North',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second));

insert into schedule_line values (22,20, 'North',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second));

insert into schedule_line values (23,20, 'North',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second));

insert into schedule_line values (24,20, 'North',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second));

insert into schedule_line values (25,20, 'North',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second));

insert into schedule_line values (26,20, 'North',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second));

insert into schedule_line values (27,20, 'North',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second));

insert into schedule_line values (28,20, 'North',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second));

insert into schedule_line values (29,20, 'North',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second));

insert into schedule_line values (30,20, 'North',(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:0.00' day to second),(interval '0 12:40:00.00' day to second));

insert into schedule_line values (31,20, 'South',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second));

insert into schedule_line values (32,20, 'South',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second));

insert into schedule_line values (33,20, 'South',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second));

insert into schedule_line values (34,20, 'South',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second));

insert into schedule_line values (35,20, 'South',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second));

insert into schedule_line values (36,20, 'South',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second));

insert into schedule_line values (37,20, 'South',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second));

insert into schedule_line values (38,20, 'South',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second));

insert into schedule_line values (39,20, 'South',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second));

insert into schedule_line values (40,20, 'South',(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:00.00' day to second),(interval '0 12:40:00.00' day to second));

insert into schedule_line values (41,30, 'North',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),null);

insert into schedule_line values (42,30, 'North',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),(interval '0 8:30:00.00' day to second),null);

insert into schedule_line values (43,30, 'North',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),(interval '0 9:00:00.00' day to second),null);

insert into schedule_line values (44,30, 'North',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),null);

insert into schedule_line values (45,30, 'North',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),null);

insert into schedule_line values (46,30, 'North',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),null);

insert into schedule_line values (47,30, 'North',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),null);

insert into schedule_line values (48,30, 'North',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),null);

insert into schedule_line values (49,30, 'North',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),null);

insert into schedule_line values (50,30, 'North',(interval '0 12:00:00.00' day to second),(interval '0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:00.00' day to second),null);

insert into schedule_line values (51,30, 'South',(interval '0 7:30:00.00' day to second),(interval '0 7:40:00.00' day to second),(interval '0 7:50:00.00' day to second),(interval '0 8:00:00.00' day to second),null);

insert into schedule_line values (52,30, 'South',(interval '0 8:00:00.00' day to second),(interval '0 8:10:00.00' day to second),(interval '0 8:20:00.00' day to second),(interval '0 8:30:00.00' day to second),null);

insert into schedule_line values (53,30, 'South',(interval '0 8:30:00.00' day to second),(interval '0 8:40:00.00' day to second),(interval '0 8:50:00.00' day to second),(interval '0 9:00:00.00' day to second),null);

insert into schedule_line values (54,30, 'South',(interval '0 9:00:00.00' day to second),(interval '0 9:10:00.00' day to second),(interval '0 9:20:00.00' day to second),(interval '0 9:30:00.00' day to second),null);

insert into schedule_line values (55,30, 'South',(interval '0 9:30:00.00' day to second),(interval '0 9:40:00.00' day to second),(interval '0 9:50:00.00' day to second),(interval '0 10:00:00.00' day to second),null);

insert into schedule_line values (56,30, 'South',(interval '0 10:00:00.00' day to second),(interval '0 10:10:00.00' day to second),(interval '0 10:20:00.00' day to second),(interval '0 10:30:00.00' day to second),null);

insert into schedule_line values (57,30, 'South',(interval '0 10:30:00.00' day to second),(interval '0 10:40:00.00' day to second),(interval '0 10:50:00.00' day to second),(interval '0 11:00:00.00' day to second),null);

insert into schedule_line values (58,30, 'South',(interval '0 11:00:00.00' day to second),(interval '0 11:10:00.00' day to second),(interval '0 11:20:00.00' day to second),(interval '0 11:30:00.00' day to second),null);

insert into schedule_line values (59,30, 'South',(interval '0 11:30:00.00' day to second),(interval '0 11:40:00.00' day to second),(interval '0 11:50:00.00' day to second),(interval '0 12:00:00.00' day to second),null);

```
insert into schedule_line values (60,30, 'South',(interval '0 12:00:00.00' day to second),(interval
'0 12:10:00.00' day to second),(interval '0 12:20:00.00' day to second),(interval '0 12:30:00.00'
day to second),null);
```