drop table trainhalts;

drop table train;

drop table track;

drop table station;

--This table contains one row for every halt of a train.

-- id : id of the train

-- seqno : the halt number. Assume that the starting station has seqno as 0

-- stcode : station code of this halt

-- timein : time at which the train arrives at this station. (will be null for the starting station of a train)

-- timeout: time at which the train departs this station. (will be null for the terminating station of a train)

-- If a train passes through a station without stopping, then there will be an entry with timein = timeout.

create table trainhalts

(id varchar(5) ,

seqno integer ,

stcode varchar(10),

timein varchar(5) ,

timeout varchar(5) ,

primary key (id,seqno) );

-- This table stores the distances between directly connected stations stcode1 and stcode2.

-- Assume that this represents a directed track. i.e, for two stations A and B, there will be

-- an entry corresponding to (A, B, distance) and another for (B,A, distance).

create table track

(stcode1 varchar(5) ,

stcode2 varchar(5),

distance integer ,

primary key (stcode1,stcode2) );

create table station

(stcode varchar(5),

name varchar(20),

primary key (stcode));

create table train

(id varchar(5) ,

name varchar(20),

primary key (id) );

delete from trainhalts;

delete from station;

delete from track;

delete from train;

insert into station values ('CST' ,'MUMBAI');

insert into station values ('BYC' ,'BYCULLA');

insert into station values ('DR' ,'DADAR');

insert into station values ('KRL' ,'KURLA');

insert into station values ('GPR' ,'GHATKOPAR');

insert into station values ('TNA' ,'THANE');

insert into station values ('DL' ,'DOMBIVALI');

insert into station values ('AMR' , 'AMBARNATH');

insert into station values ('KYN' ,'KALYAN');

insert into station values ('KSR' ,'KASARA');

insert into train values ('KP11' ,'CST-KYN');

insert into train values ('KP11L' ,'CST-KYN\_LOCAL');

insert into train values ('T129' ,'CST-TNA\_LOCAL');

insert into train values ('A63' ,'CST-DL\_LOCAL');

insert into train values ('K101' ,'CST-KYN\_LOCAL');

insert into train values ('N27' ,'CST-TNA\_LOCAL');

insert into train values ('S33' ,'CST-KGR\_LOCAL');

insert into train values ('A65' ,'CST-AMR\_LOCAL');

insert into track values ('CST' ,'BYC', 5);

insert into track values ('CST' ,'DR', 9);

insert into track values ('CST' ,'KRL', 16);

insert into track values ('CST' ,'GPR', 20);

insert into track values ('CST' ,'TNA', 34);

insert into track values ('CST' ,'DL', 49);

insert into track values ('CST' ,'KYN', 54);

insert into track values ('CST' ,'KSR', 77);

insert into track values ('CST' ,'AMR', 65);

insert into track values ('BYC' ,'DR', 4);

insert into track values ('BYC' ,'KRL', 11);

insert into track values ('GRP' ,'TNA', 14);

insert into track values ('DR' ,'TNA', 25);

insert into track values ('KRL' ,'KYN', 38);

insert into track values ('TNA' ,'KYN', 20);

insert into track values ('TNA' ,'KSR', 43);

insert into trainhalts values ('KP11' , 0 , 'CST' , NULL, '20.23');

insert into trainhalts values ('KP11' , 1 , 'BYC' , '20.31', '20.32');

insert into trainhalts values ('KP11' , 2 , 'DR' , '20.41', '20.42');

insert into trainhalts values ('KP11' , 3 , 'GPR' , '20.52', '20.53');

insert into trainhalts values ('KP11' , 4 , 'GPR' , '20.52', '20.53');

insert into trainhalts values ('KP11' , 5 , 'DR' , '20.41', '20.42');

insert into trainhalts values ('KP11' , 6 , 'GPR' , '20.58', '20.59');

insert into trainhalts values ('KP11' , 7 , 'TNA' , '21.21', '21.22');

insert into trainhalts values ('KP11' , 8 , 'DL' , '21.45', '21.46');

insert into trainhalts values ('KP11' , 9 , 'KYN' , '21.54', NULL);

insert into trainhalts values ('A65' , 0 , 'CST' , NULL , '20.52');

insert into trainhalts values ('A65' , 1 , 'BYC' , '21.00' , '21.01');

insert into trainhalts values ('A65' , 2 , 'DR' , '21.10' , '21.11');

insert into trainhalts values ('A65' , 3 , 'KRL' , '21.22' , '21.23');

insert into trainhalts values ('A65' , 4 , 'GPR' , '21.28' , '21.29');

insert into trainhalts values ('A65' , 5 , 'TNA' , '21.49' , '21.50');

insert into trainhalts values ('A65' , 6 , 'DL' , '22.13' , '22.14');

insert into trainhalts values ('A65' , 7 , 'KYN' , '22.22' , '22.23');

insert into trainhalts values ('A65' , 8 , 'AMR' , '22.36' , NULL);