U19cs076 rough assgn5 dbms

create table train (id varchar(5) , name varchar(20),  primary key (id) );

create table station (stcode varchar(5),  name varchar(20), primary key (stcode));

create table track (stcode1 varchar(5) ,  stcode2 varchar(5), distance integer check(distance>0), primary key(stcode1, stcode2) );

create table trainhalts (id varchar(5) , seqno integer , stcode varchar(10), timein varchar(5) , timeout varchar(5) , primary key (id, seqno) );

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 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 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);

select s1.name as station1,s2.name as station2, tr.distance from station s1, station s2, track tr where tr.stcode1=s1.stcode and tr.stcode2=s2.stcode;

**select \* from track where distance < 20;**

**select distinct(th.id) from (select stcode from station s where s.name='GHATKOPAR') c, trainhalts th where th.stcode = c.stcode;**

**select train.name from train join station s join trainhalts th where th.id=train.id and s.stcode= th.stcode and s.name='MUMBAI' and th.timein is null order by train.name;**

**select st.name from station st join trainhalts th join train where train.id=th.id and st.stcode=th.stcode and train.name='CST-AMR\_LOCAL' order by th.seqno;**

**select train.name from train join station st join trainhalts th where train.id=th.id and st.stcode=th.stcode and st.name='THANE' and th.seqno<6;**

**select s1.name, s2.name, tr.distance from station s1, station s2, track tr where tr.stcode1=s1.stcode and tr.stcode2=s2.stcode order by tr.distance desc limit 1;**

**select id from trainhalts where timeout=(select max(timeout) from trainhalts where timeout<(select max(timeout) from trainhalts));**

/\*q9\*/

**delete from track where stcode1="CST" or stcode2="CST";**

**delete from trainhalts where stcode="CST";**

**/\*10\*/**

**delete from train where id = "KP11";**

**delete from trainhalts where id = "KP11";**