ASSIGNMENT 1: BASIC SQL

***** Write the following Queries for Railway Schema.

<u>Create the Railway schema using the commands in the Railway DDL</u> <u>script; The DDL script also contains a description of the railway Schema.</u> <u>Insert sample data using the command in the file SampleRailwayData.</u>

1. Find pairs of stations (station codes) that have a track (direct connection) with distance less than 20Kms between them.

Query: select stcode1, stcode2, from track where distance < 20;

Output:

STCODE1	STCODE2
CST	BYC
CST	DR
CST	KRL
BYC	DR
BYC	KRL
GRP	TNA

2. Find the IDs of all the trains which have a stop at THANE

Query: select id from trainhalts where stcode = (select stcode from where name='THANE');

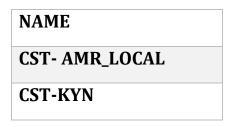
Output:



3. Find the names of all trains that start at MUMBAI.

Query: select name from train where id in (select if from trainhalts where seqno=0 and stcode=(select stcode from station where name='MUMBAI'));

Output:



4. List all the stations in order of visit by the train 'CST-AMR_LOCAL'.

Query: select name from station where stcode in (select stcode from trainhalts where id=(select id from tain where name='CST_AMR_LOCAL'));

Output:

NAME
MUMBAI
BYCULLA
DADAR
KURLA
GHATKOPAR
THANE
DOMBIVALI
KALYAN
AMBARNATH