**Basic SQL analysis**

**Count of unique device ids in the train table**

Select count(distinct(device\_id)) from train;

Identified 74645 unique device ids.

**Check whether there are any duplicate device ids present in the brand\_device table. If yes, how many duplicates?**

Select device\_id, count(1) cnt from brand\_device group by device\_id having cnt>1;

There are duplicates.

Select count(device\_id) from (Select device\_id, count(1) cnt from brand\_device group by device\_id having cnt>1) a;

Identified 532 duplicates

**Number of unique phone brands from the brand\_device table**

Select count(distinct(phone\_brand)) from brand\_device;

There are distinct 97 phone brands;

**Count of device ids where the latitude and longitude detail are zero, from the events table**

Select count(device\_id) from events where latitude>0 and longitude=0;

There are 24 rows with lat and long =0