# Data Ingestion from various data sources and Basic SQL Analysis:

(SQL Tasks)

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

*select count(distinct device_id) as Unique_id_count from train;*

```
mysql> select count(distinct device_id) as Unique_id_count from train;
+------------------+
| Unique_id_count |
+------------------+
|           74645 |
+------------------+
1 row in set (0.77 sec)
```

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

*select device_id, count(*) from brand_device group by device_id having count(*) > 1;*

*yes , 532 duplicates*

```
mysql> select device_id, count(*) from brand_device group by device_id having count(*) > 1;
+---------------------+----------+
| device_id           | count(*) |
+---------------------+----------+
| -1054056445342370000 |        2 |
| -1058976689976600000 |        2 |
| -1060418556246360000 |        2 |
| -1076064832252210000 |        2 |
| -1087216240998270000 |        2 |
```

**3. Number of unique phone brands from the brand_device table**

*select count(distinct phone_brand) as unique_phone_brand from brand_device;*

```
mysql> select count(distinct phone_brand) as unique_phone_brand from brand_device;
+--------------------+
| unique_phone_brand |
+--------------------+
|                 97 |
+--------------------+
1 row in set (0.15 sec)
```

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

*select count(device_id) as device_count from events where longitude = 0 and latitude = 0;*

```
mysql> select count(device_id) as device_count from events where longitude = 0 and latitude = 0;
+--------------+
| device_count |
+--------------+
|       968675 |
+--------------+
1 row in set (7.09 sec)
```