

DATA ANALYTICS ASSIGNMENT

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PROBLEM STATEMENT:

ETL(EXTRACT-TRANSFORM-LOAD) ON A DATASET.

SCREENSHOTS

```
In [1]: import mysql.connector
        from mysql.connector import Error
        import json
        import collections
        import pandas as pd
```

```
In [2]: conn=mysql.connector.connect(host='localhost',database='ETL',port=3306,user='root',password='')
        cursor=conn.cursor()
        cursor.execute("select * from user_device")
        rows=cursor.fetchall()
        columns=['use_id','user_id','platform','platform_version','device','use_type_id']
        df1=pd.DataFrame(rows,columns=columns)
        df1.head()
```

```
Out[2]:
```

	use_id	user_id	platform	platform_version	device	use_type_id
0	1234	54321	ios	10.2000	iPhone7.2	2
1	1235	54322	ios	10.2000	iPhone6.2	2
2	1236	54323	ios	10.2000	iPhone7.1	2
3	1237	54325	ios	10.2000	iPhone7.3	3
4	1238	54326	ios	10.2000	iPhone7.2	2

```
In [3]: header=['retail_brading','marketing_name','device','model']
conn=mysql.connector.connect(host='localhost',database='ETL',port=3306,user='root',password='')
cursor=conn.cursor()
cursor.execute("select * from android_devices")
android=cursor.fetchall()
df2=pd.DataFrame(android,columns=header)
df2.head()
```

```
Out[3]:
```

	retail_brading	marketing_name	device	model
0	Gradient	iPhone7.2	bravo	iPhone7.2
1	Gradient	iPhone6.2	bravo	iPhone6.2
2	Gradient	iPhone8.2	GBC_bravo	iPhone8.2
3	Gradient	iPhone5.2	bravo	iPhone5.2
4	Gradient	iPhone7.2	bravo	iPhone7.2

```
In [5]: result=pd.merge(df1,df2[['retail_brading','model']],left_on='device',right_on='model',how='left')
final=pd.DataFrame(result)
final.head()
```

```
Out[5]:
```

	use_id	user_id	platform	platform_version	device	use_type_id	retail_brading	model
0	1234	54321	ios	10.2000	iPhone7.2	2	Gradient	iPhone7.2
1	1234	54321	ios	10.2000	iPhone7.2	2	Gradient	iPhone7.2
2	1235	54322	ios	10.2000	iPhone6.2	2	Gradient	iPhone6.2
3	1236	54323	ios	10.2000	iPhone7.1	2	Gradient	iPhone7.1
4	1237	54325	ios	10.2000	iPhone7.3	3	NaN	NaN