Name: Arnab Dey ID: U20210014

4)

Ans: supplied write_time.csv along with submission. Refer to the time column of the same.

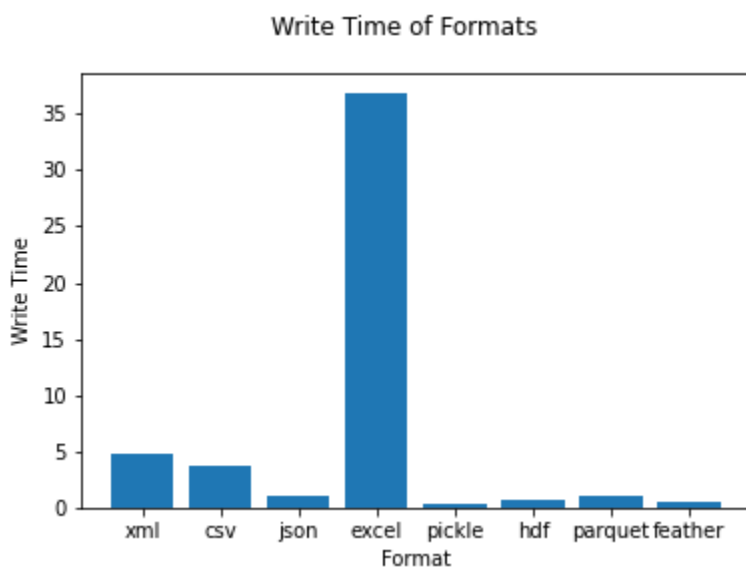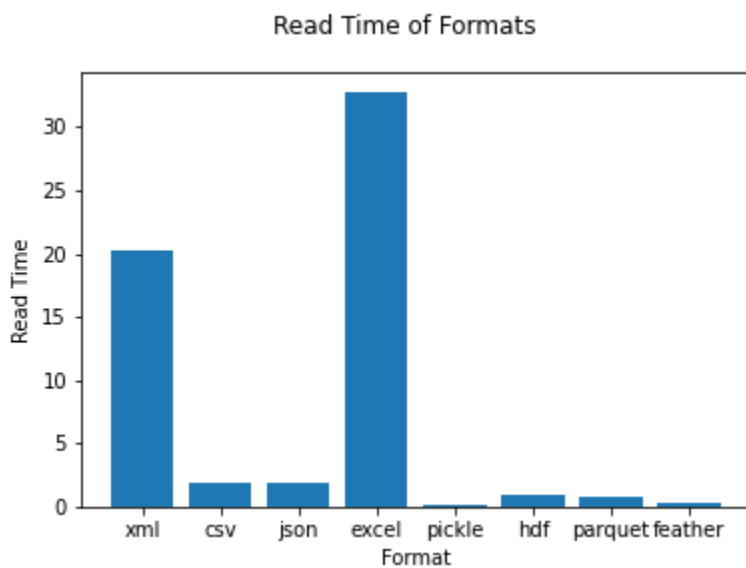5)

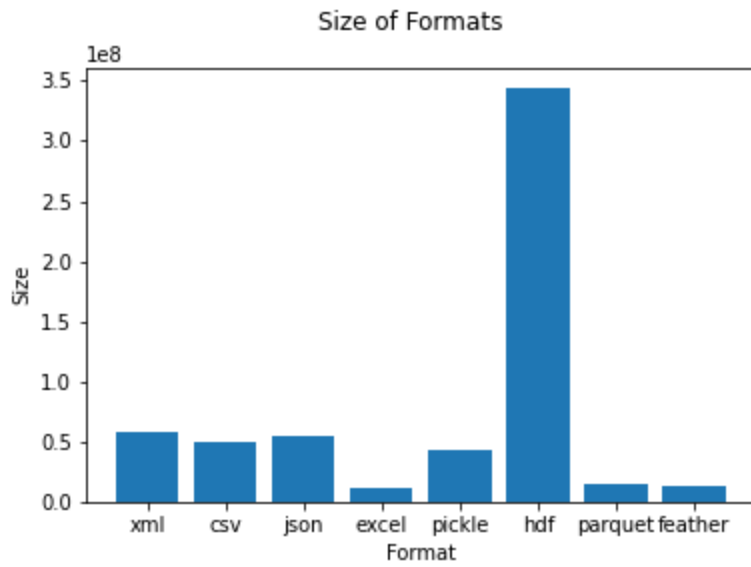Ans: supplied write_time.csv along with submission. Refer to the size column of the same.

6)

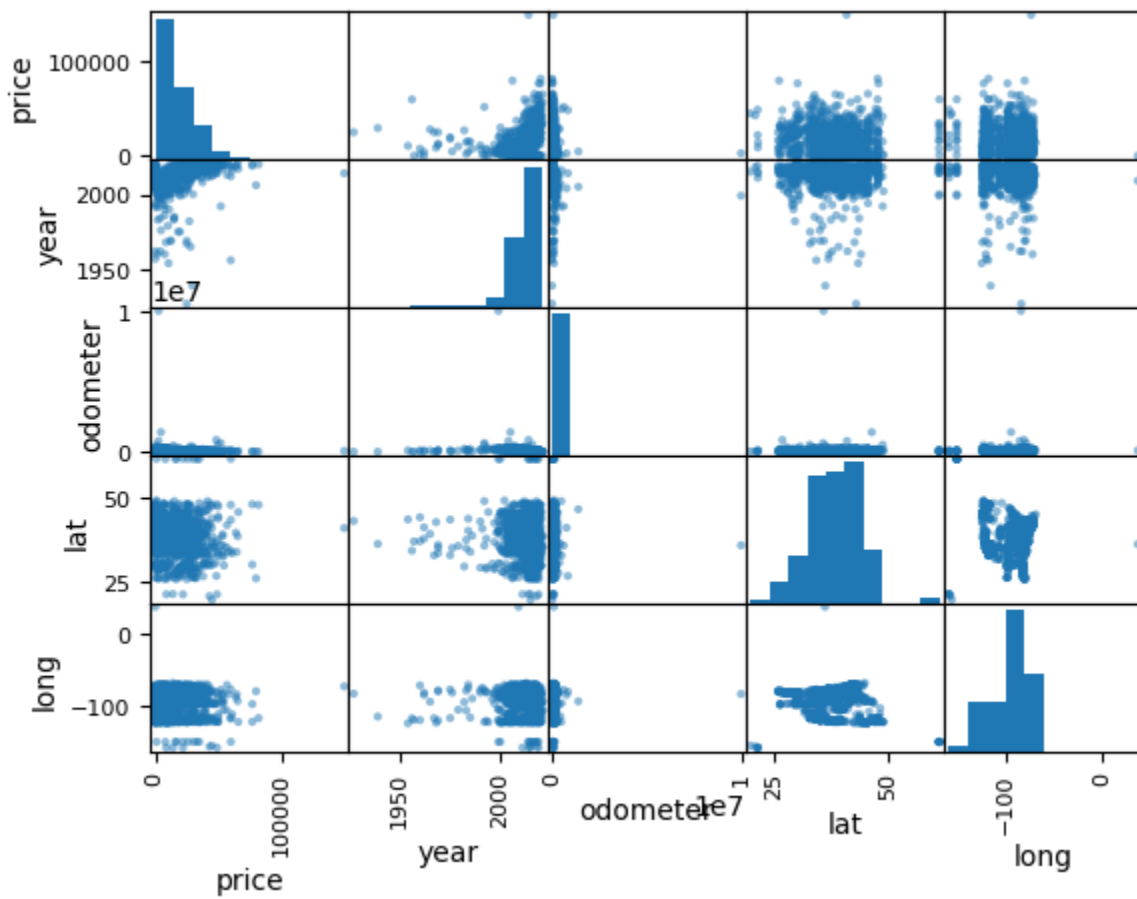Ans: supplied read_time.csv along with submission. Refer to the time column of the same.

7)

Ans:

Size of Formats

8)
Ans: supplied code file with submission.
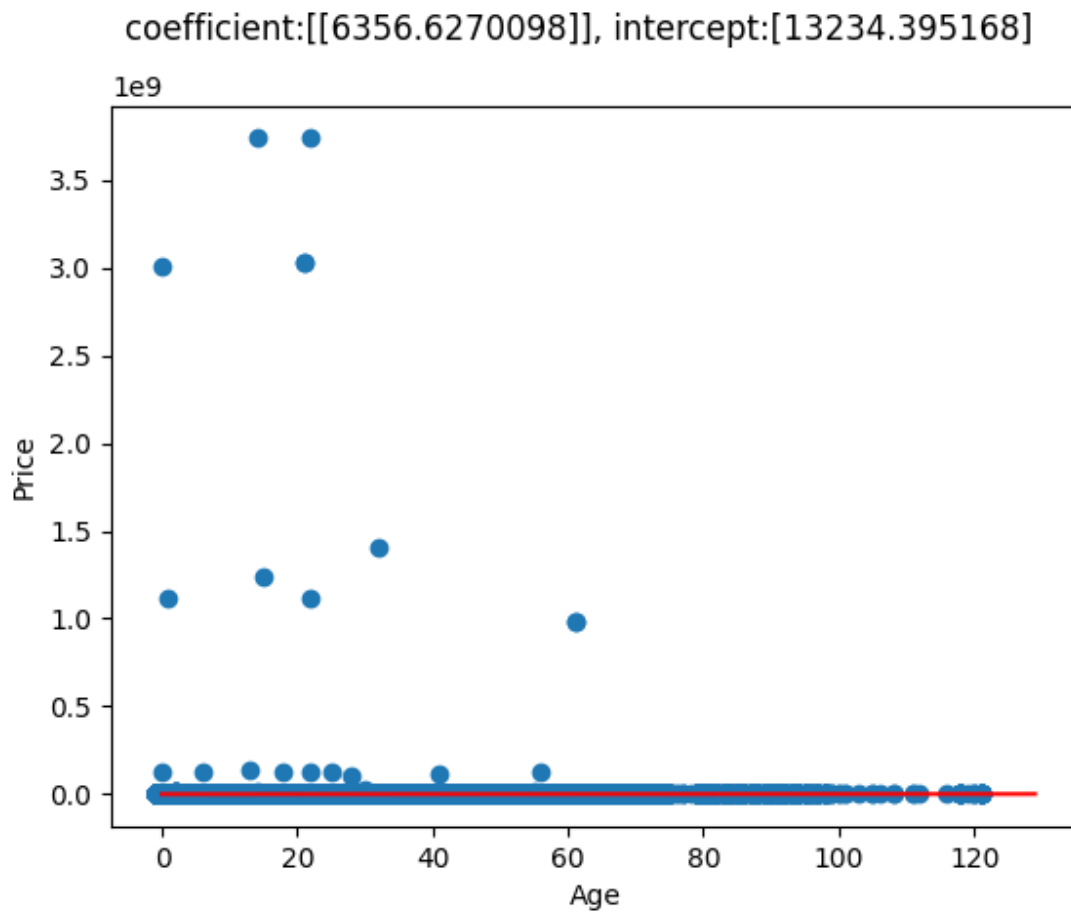9)
Ans:

10)
Ans:

coefficient:[[6356.6270098]], intercept:[13234.395168]

11)
Ans:For sqlite3
Write_time: 2.678936063995934
Size: 244695040
Read_time: 7.244320361998689

12)
Ans: Using DataFrame.query(...)
885

```
prius_data = df_clean[df_clean['model'].str.contains('prius') == True]
prius_data.query('condition == "excellent" and posting_date.dt.year >= 2021')
```

Time: 0.0077351189975161105

Using read_sql_query
892

```python
query = "select * from data where condition == \'excellent\' and model
like \'%prius%\' and posting_date >= \'2021-01-01\'"
pd.read_sql_query(query, con)
```

Time: 0.11322941999969771