SQL:

```
SELECT * FROM dataset_1;

SELECT weather, temperature from dataset_1;

SELECT * FROM dataset_1 limit 10;

SELECT DISTINCT passanger from dataset_1 ;

SELECT * FROM dataset_1 WHERE destination = 'Home';

SELECT * FROM dataset_1 order by coupon ;

SELECT destination as Destination from dataset_1;

SELECT occupation From dataset_1 group by occupation;

SELECT weather ,AVG(temperature) as avg_temp FROM dataset_1 GROUP BY weather;

SELECT weather ,COUNT( temperature) AS count_temp FROM dataset_1 GROUP BY
weather;

SELECT weather ,COUNT(DISTINCT temperature) AS count_distinct_temp FROM
dataset_1 GROUP BY weather;

SELECT weather ,SUM(temperature) AS sum_temp FROM dataset_1 GROUP BY
weather;

SELECT weather ,MIN(temperature) AS min_temp FROM dataset_1 GROUP BY weather;

SELECT weather ,MAX(temperature) AS max_temp FROM dataset_1 GROUP BY weather;

SELECT occupation FROM dataset_1 GROUP BY occupation HAVING
occupation='Student';

SELECT DISTINCT destination FROM(SELECT * FROM dataset_1 UNION SELECT * FROM
table_to_union);

SELECT a.destination,a.time,b.part_of_day FROM dataset_1 a INNER JOIN table_to_join
b ON a.time=b.time;

SELECT destination ,passanger FROM(SELECT*FROM dataset_1 WHERE passanger =
'Alone');

SELECT * FROM dataset_1 WHERE weather LIKE 'Sun%';

SELECT DISTINCT temperature FROM dataset_1 WHERE temperature BETWEEN 29 AND
75;

SELECT occupation FROM dataset_1 WHERE occupation IN('Sales &
Related','Management');
```

python:

```
import pandas as pd

df = pd.read_csv(r"C:\Users\Lucky\Desktop\sql\dataset_1_202412121118.csv")

df

df[['weather','temperature']]

df.head(10)

df['passanger'].unique()

df[df['destination']=='Home']

df.sort_values('coupon')

df.rename(columns={'destination':'Destination'},inplace=True)

df

df.groupby('occupation').size().to_frame('Count').reset_index()

df.groupby('weather')['temperature'].mean().to_frame('avg_temp').reset_index()

df.groupby('weather')['temperature'].size().to_frame('Count_temp').reset_index()

df.groupby('weather')['temperature'].nunique().to_frame('count_distinct_temp').reset_in
dex()

df.groupby('weather')['temperature'].sum().to_frame('sum_temp').reset_index()

df.groupby('weather')['temperature'].min().to_frame('min_temp').reset_index()

df.groupby('weather')['temperature'].max().to_frame('max_temp').reset_index()

df.groupby('occupation').filter(lambda x: x['occupation'].iloc[0] ==
'Student').groupby('occupation').size()

df1 = df.copy()

pd.concat([df, df1])['destination'].drop_duplicates()

pd.merge(df, df2[['time']], on='time', how='inner')[['destination', 'time']]

df[df['passanger'] == 'Alone'][['destination', 'passanger']]

df[df['weather'].str.startswith('Sun')]

df[(df['temperature'] >= 29) & (df['temperature'] <= 75)]['temperature'].unique()

df[df['occupation'].isin(['Sales & Related', 'Management'])][['occupation']]
```