*<SQLite Test.db> Script

```
select * from dataset_1;
```

dataset_1 1

select * from dataset_1 | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger	weather	temperature	time	coupon	exp
1	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h
3	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h
5	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
6	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h
7	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take away	2h
10	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d
11	No Urgent Place	Kid(s)	Sunny	80	2PM	Restaurant(<20)	1d
12	No Urgent Place	Kid(s)	Sunny	55	2PM	Restaurant(<20)	1d

Value

No Urgent Place

Refresh | Save | Cancel | Export data | 200 | 200+

jupyter Pandas_vs_Sql Last Checkpoint: 11 minutes ago

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Code

JupyterLab | Python 3 (ipykernel)

[1]:
```
import pandas as pd
```

[3]:
```
_rawdf = pd.read_csv(r'D:\Python_Code\Raw_dataset_202412091826.csv')
_rawdf
```

[3]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
0	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	
1	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	
3	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female	21	Unmarried partner	...	NaN	4~8	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12679	Home	Partner	Rainy	55	6PM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12680	Work	Alone	Rainy	55	7AM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12681	Work	Alone	Snowy	30	7AM	Coffee House	1d	Male	26	Single	...	1~3	4~8	
12682	Work	Alone	Snowy	30	7AM	Bar	1d	Male	26	Single	...	1~3	4~8	
12683	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	2h	Male	26	Single	...	1~3	4~8	

12684 rows × 27 columns

Get 10 records from the dataset in sqllite:

```
select * from dataset_1 limit 10;
```

dataset_1 1

select * from dataset_1 limit 10 | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger	weather	temperature	time	coupon	expirat
1	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h
3	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h
5	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
6	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h
7	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take away	2h
10	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d

Value

No Urgent Place

Python: we can use

head(10) to get top 10, tail(10) to get bottom 10 or slicing [:]

```
[15]: _rawdf.head(10)
```

[15]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant20To5
0	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
1	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
3	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
5	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
6	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
7	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Female	21	Unmarried partner	...	NaN	4~8	1~

10 rows × 27 columns

```
[17]: _rawdf[:10]
```

[17]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant20To5
0	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
1	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
3	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
5	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
6	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d	Female	21	Unmarried partner	...	NaN	4~8	1~
7	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	1~
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Female	21	Unmarried partner	...	NaN	4~8	1~

10 rows × 27 columns

```
[19]: _rawdf.tail(10)
```

[19]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
12674	Home	Alone	Rainy	55	10PM	Coffee House	2h	Male	26	Single	...	1~3	4~8	
12675	Home	Alone	Snowy	30	10PM	Coffee House	2h	Male	26	Single	...	1~3	4~8	
12676	Home	Alone	Sunny	80	6PM	Restaurant(20-50)	1d	Male	26	Single	...	1~3	4~8	
12677	Home	Partner	Sunny	30	6PM	Restaurant(<20)	1d	Male	26	Single	...	1~3	4~8	
12678	Home	Partner	Sunny	30	10PM	Restaurant(<20)	2h	Male	26	Single	...	1~3	4~8	
12679	Home	Partner	Rainy	55	6PM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12680	Work	Alone	Rainy	55	7AM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12681	Work	Alone	Snowy	30	7AM	Coffee House	1d	Male	26	Single	...	1~3	4~8	
12682	Work	Alone	Snowy	30	7AM	Bar	1d	Male	26	Single	...	1~3	4~8	
12683	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	2h	Male	26	Single	...	1~3	4~8	

10 rows × 27 columns

Distinct: Gets the unique value from the attribute.

select distinct passanger **from** dataset_1;

```
select distinct passanger from dataset_1;
```

dataset_1 1

select distinct passanger from dataset_1 | Enter a SQL expression to filter results (use Ctrl+Space)

	passanger
1	Alone
2	Friend(s)
3	Kid(s)
4	Partner

Python:

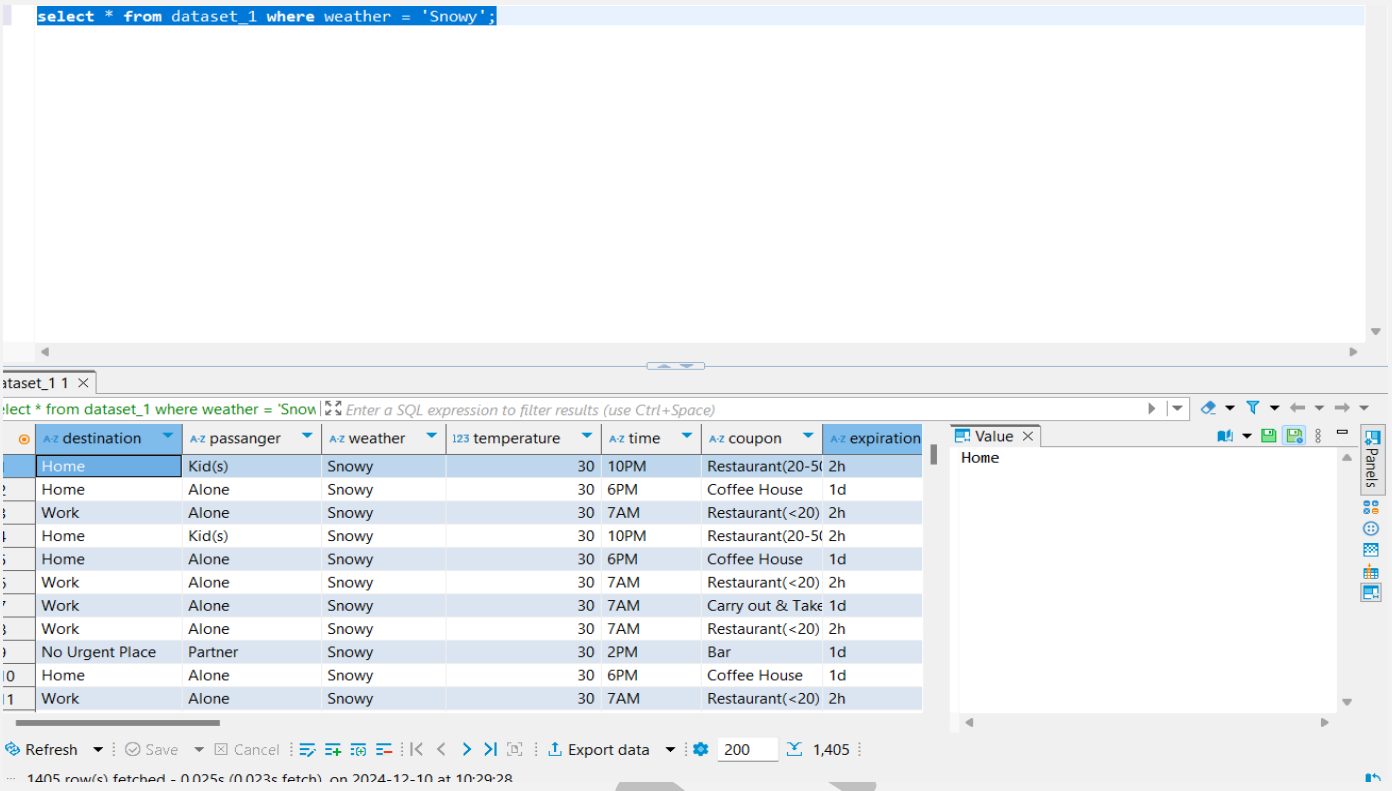
#Get the column names from the dataframe
_rawdf.columns

#get the distinct values from the dataframe attribute or column
_rawdf['passanger'].unique()

```
[23]: #Get the column names from the dataframe
      _rawdf.columns

[23]: Index(['destination', 'passanger', 'weather', 'temperature', 'time', 'coupon',
             'expiration', 'gender', 'age', 'maritalStatus', 'has_children',
             'education', 'occupation', 'income', 'car', 'Bar', 'CoffeeHouse',
             'CarryAway', 'RestaurantLessThan20', 'Restaurant20To50',
             'toCoupon_GEQ5min', 'toCoupon_GEQ15min', 'toCoupon_GEQ25min',
             'direction_same', 'direction_opp', 'Y', 'row_count'],
            dtype='object')

[35]: #get the distinct values from the dataframe attribute or column
      _rawdf['passanger'].unique()

[35]: array(['Alone', 'Friend(s)', 'Kid(s)', 'Partner'], dtype=object)
```

Apply condition to attribute in sqllite:

select * from dataset_1 where weather = 'Snowy';



```
select * from dataset_1 where weather = 'Snowy';
```

dataset_1 1 ×

select * from dataset_1 where weather = 'Snow | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger	weather	temperature	time	coupon	expiration
	Home	Kid(s)	Snowy	30	10PM	Restaurant(20-5(	2h
2	Home	Alone	Snowy	30	6PM	Coffee House	1d
3	Work	Alone	Snowy	30	7AM	Restaurant(<20)	2h
4	Home	Kid(s)	Snowy	30	10PM	Restaurant(20-5(	2h
5	Home	Alone	Snowy	30	6PM	Coffee House	1d
6	Work	Alone	Snowy	30	7AM	Restaurant(<20)	2h
7	Work	Alone	Snowy	30	7AM	Carry out & Take	1d
8	Work	Alone	Snowy	30	7AM	Restaurant(<20)	2h
9	No Urgent Place	Partner	Snowy	30	2PM	Bar	1d
10	Home	Alone	Snowy	30	6PM	Coffee House	1d
11	Work	Alone	Snowy	30	7AM	Restaurant(<20)	2h

Value ×
Home

Panels

Refresh | Save | Cancel | Export data | 200 | 1,405

1405 row(s) fetched - 0.025s (0.023s fetch), on 2024-12-10 at 10:29:28

Python:

_rawdf['weather'].unique()

_rawdf[_rawdf['weather'] == 'Snowy']

```
[47]: _rawdf['weather'].unique()
[47]: array(['Sunny', 'Rainy', 'Snowy'], dtype=object)
[57]: _rawdf[_rawdf['weather'] == 'Snowy']
```

[57]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
6594	Home	Kid(s)	Snowy	30	10PM	Restaurant(20-50)	2h	Male	36	Married partner	...	less1	less1	
6596	Home	Alone	Snowy	30	6PM	Coffee House	1d	Male	36	Married partner	...	less1	less1	
6603	Home	Alone	Snowy	30	7AM	Restaurant(<20)	2h	Male	36	Married partner	...	less1	less1	
6616	Home	Kid(s)	Snowy	30	10PM	Restaurant(20-50)	2h	Male	36	Married partner	...	less1	1~3	
6618	Home	Alone	Snowy	30	6PM	Coffee House	1d	Male	36	Married partner	...	less1	1~3	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12666	Home	Friend(s)	Snowy	30	2PM	Restaurant(<20)	1d	Male	26	Single	...	1~3	4~8	
12671	Home	Partner	Snowy	30	10AM	Restaurant(<20)	1d	Male	26	Single	...	1~3	4~8	
12675	Home	Alone	Snowy	30	10PM	Coffee House	2h	Male	26	Single	...	1~3	4~8	
12681	Home	Alone	Snowy	30	7AM	Coffee House	1d	Male	26	Single	...	1~3	4~8	
12682	Home	Alone	Snowy	30	7AM	Bar	1d	Male	26	Single	...	1~3	4~8	

1405 rows × 27 columns

Sqllite:

select * from dataset_1 *d* order by *d*.coupon ;

```
select * from dataset_1 d order by d.coupon ;
```

destination	passanger	weather	temperature	time	coupon	expiration
No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
Home	Alone	Sunny	55	6PM	Bar	1d
Work	Alone	Sunny	55	7AM	Bar	1d
No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d

Value: No Urgent Place

Refresh | Save | Cancel | Export data | 200 | 3,200+

3200 row(s) fetched - 0.054s (0.037s fetch), on 2024-12-10 at 10:37:26

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#sort based on a attribute
_rawdf.sort_values('coupon')

```
[63]: #sort based on a attribute
      _rawdf.sort_values('coupon')
```

[63]:

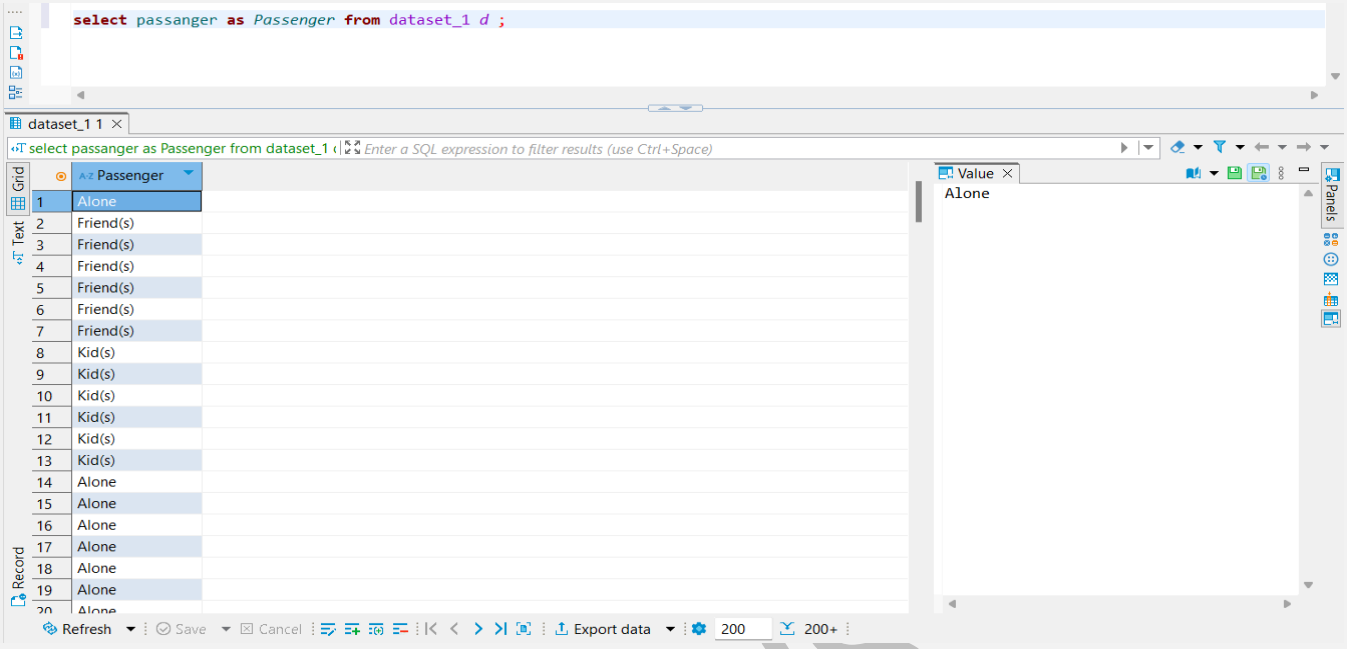
	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurar
11702	Home	Partner	Sunny	30	10PM	Bar	2h	Female	50plus	Married partner	...	4~8	1~3	
9930	Home	Alone	Snowy	30	2PM	Bar	1d	Female	21	Single	...	gt8	gt8	
10632	Home	Alone	Rainy	55	6PM	Bar	1d	Male	21	Single	...	gt8	less1	
7997	Home	Friend(s)	Rainy	55	10PM	Bar	2h	Male	26	Unmarried partner	...	4~8	never	
11166	Home	Alone	Snowy	30	7AM	Bar	1d	Female	41	Married partner	...	gt8	1~3	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
10476	Home	Alone	Sunny	80	6PM	Restaurant(<20)	1d	Female	31	Unmarried partner	...	1~3	1~3	
5447	Home	Alone	Sunny	80	10PM	Restaurant(<20)	2h	Female	50plus	Single	...	less1	less1	
10478	Home	Alone	Snowy	30	10PM	Restaurant(<20)	2h	Female	31	Unmarried partner	...	1~3	1~3	
5440	Home	Alone	Sunny	80	2PM	Restaurant(<20)	2h	Female	50plus	Single	...	less1	less1	
0	Home	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	

12684 rows × 27 columns

```
[ ]:
```

Alias Name/ Rename a Column:

select passanger as *Passenger* from dataset_1 *d* ;



#renaming the column or attributes in Dataframe

_rawdf.rename(columns={'passanger':'Passenger'},inplace=True)

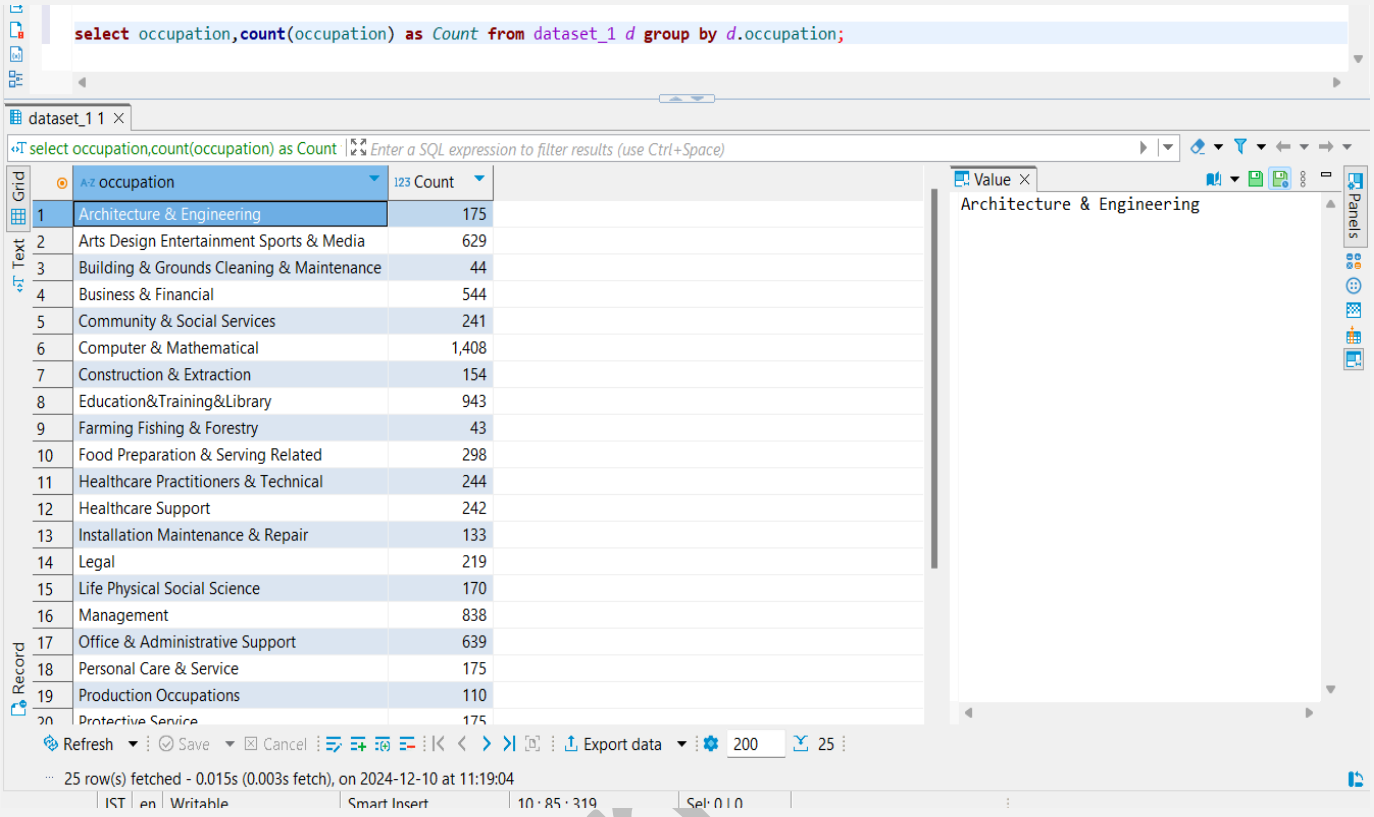
```
[65]: #renaming the column or attributes in Dataframe
      _rawdf.rename(columns={'passanger':'Passenger'},inplace=True)

[67]: _rawdf
```

[67]:

	destination	Passenger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
0	Home	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	
1	Home	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
2	Home	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	
3	Home	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
4	Home	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female	21	Unmarried partner	...	NaN	4~8	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12679	Home	Partner	Rainy	55	6PM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12680	Home	Alone	Rainy	55	7AM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	

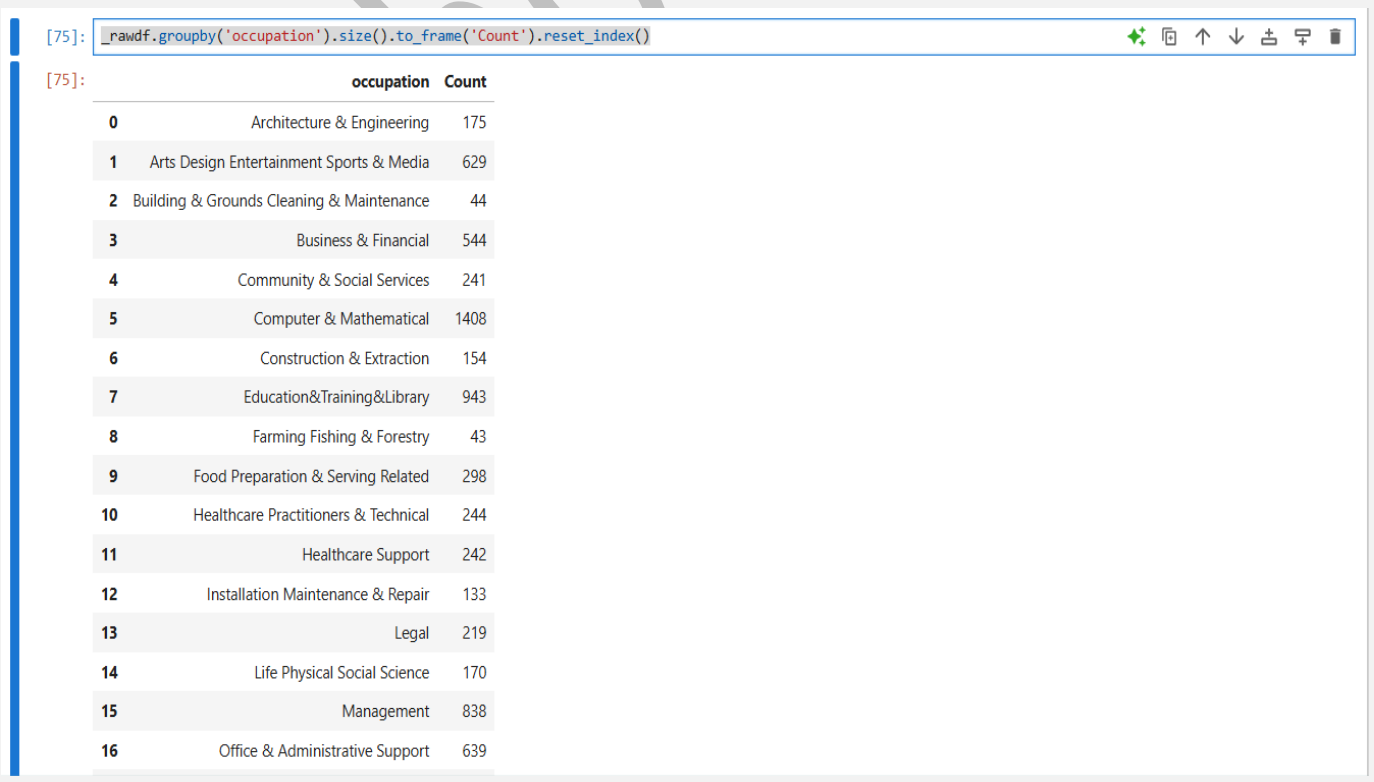
Groupby:

select occupation,**count**(occupation) **as** *Count* **from** dataset_1 *d* **group by** *d*.occupation;



Python:

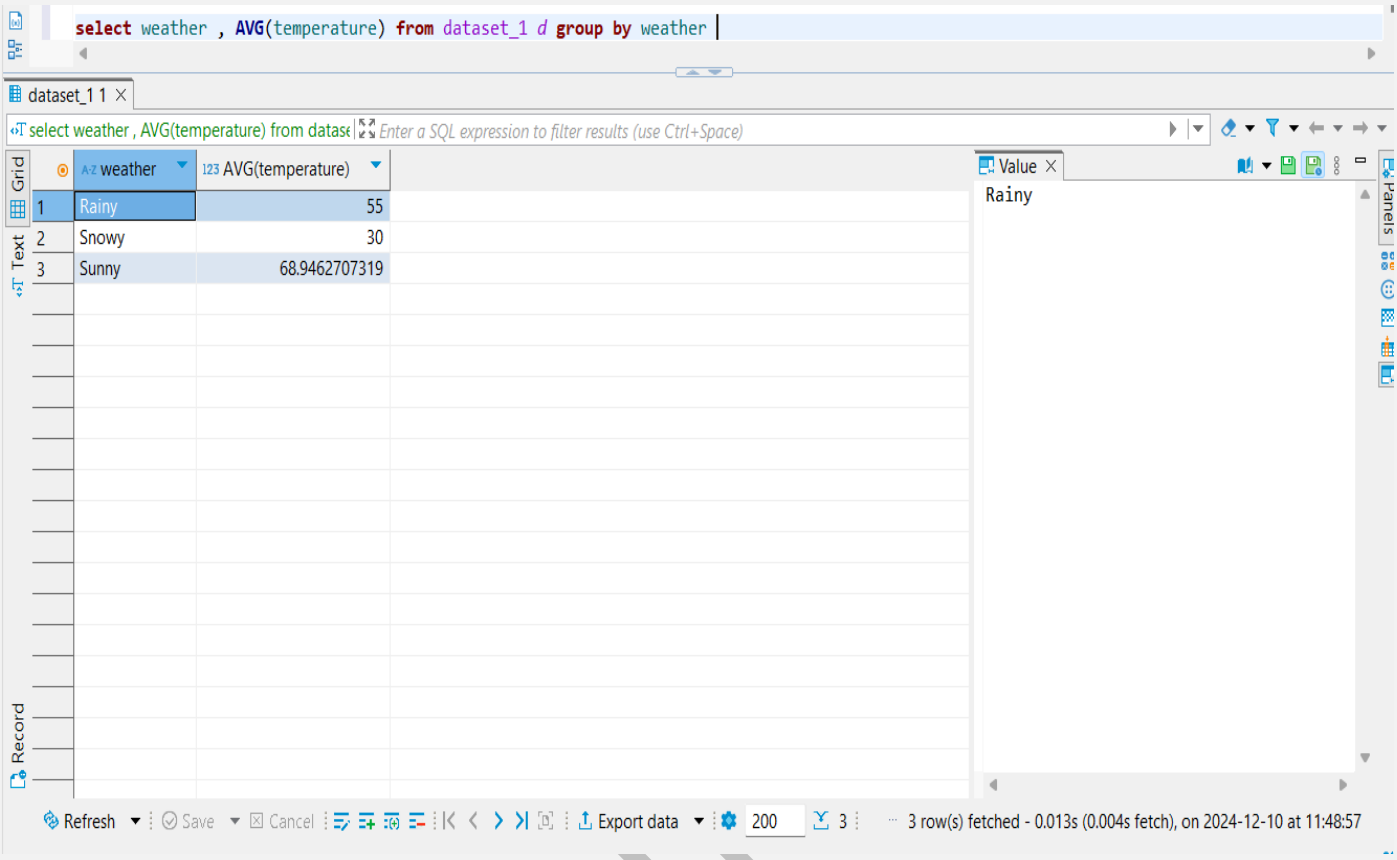
_rawdf.groupby('occupation').size().to_frame('Count').reset_index()



	occupation	Count
0	Architecture & Engineering	175
1	Arts Design Entertainment Sports & Media	629
2	Building & Grounds Cleaning & Maintenance	44
3	Business & Financial	544
4	Community & Social Services	241
5	Computer & Mathematical	1408
6	Construction & Extraction	154
7	Education&Training&Library	943
8	Farming Fishing & Forestry	43
9	Food Preparation & Serving Related	298
10	Healthcare Practitioners & Technical	244
11	Healthcare Support	242
12	Installation Maintenance & Repair	133
13	Legal	219
14	Life Physical Social Science	170
15	Management	838
16	Office & Administrative Support	639

Groupby:

select weather , AVG(temperature) from dataset_1 *d* group by weather

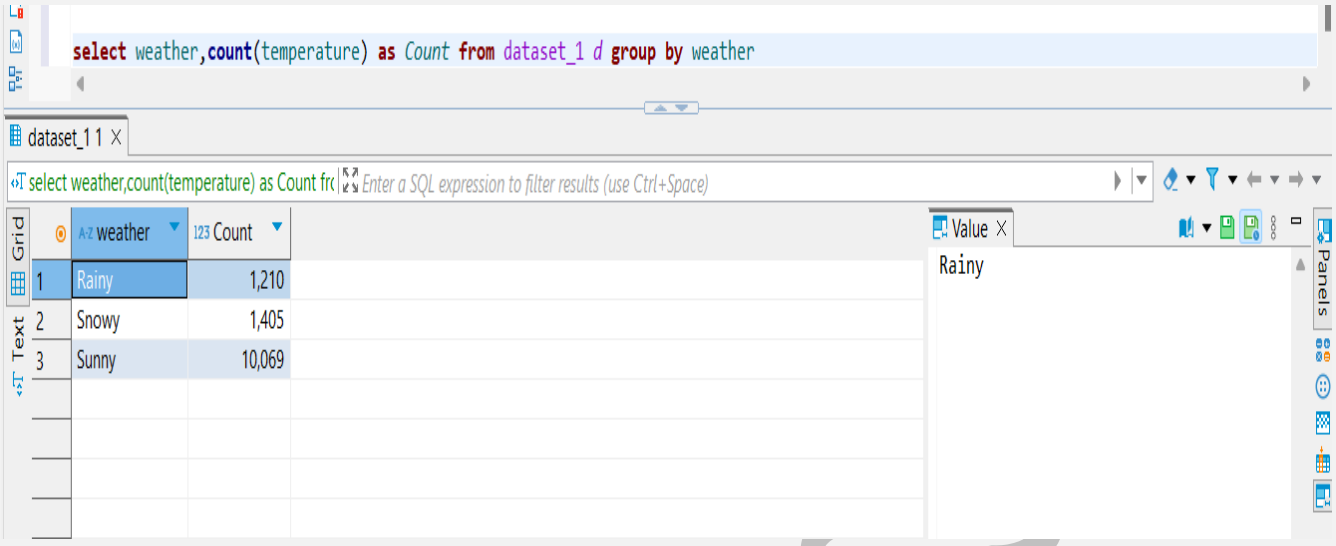


Python:

_rawdf.groupby('weather')['temperature'].mean().to_frame('AVG(temperature)').reset_index()

Groupby:

select weather,**count**(temperature) **as** *Count* **from** dataset_1 *d* **group by** weather

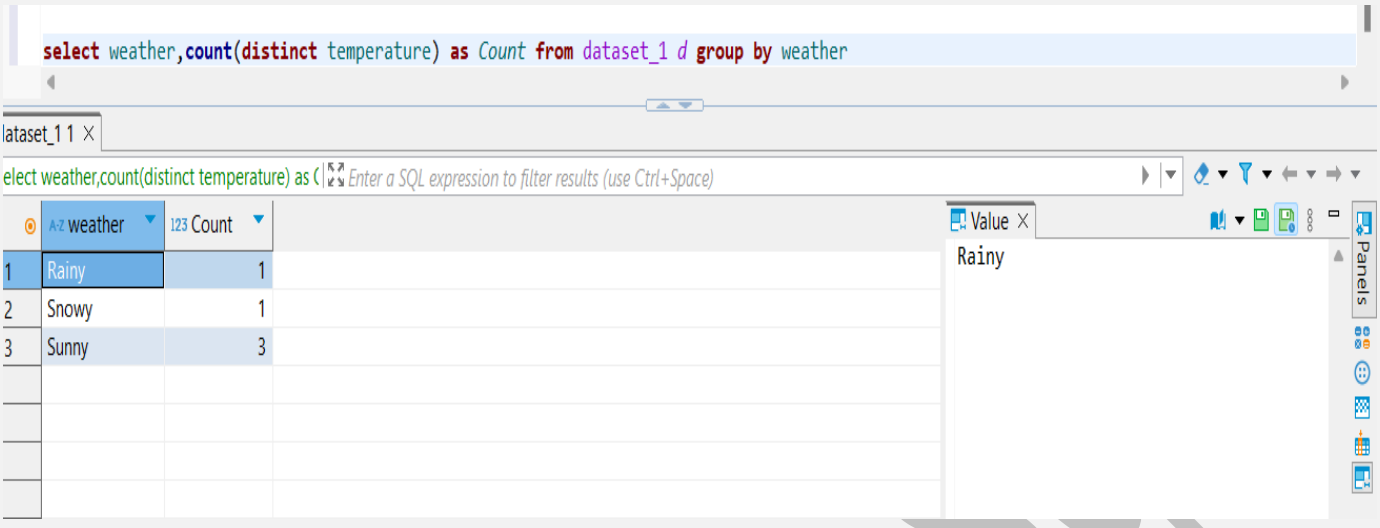


Python:

_rawdf.groupby('weather')['temperature'].size().to_frame('Count').reset_index()

Sql

select weather,count(distinct temperature) as *Count* from dataset_1 *d* group by weather

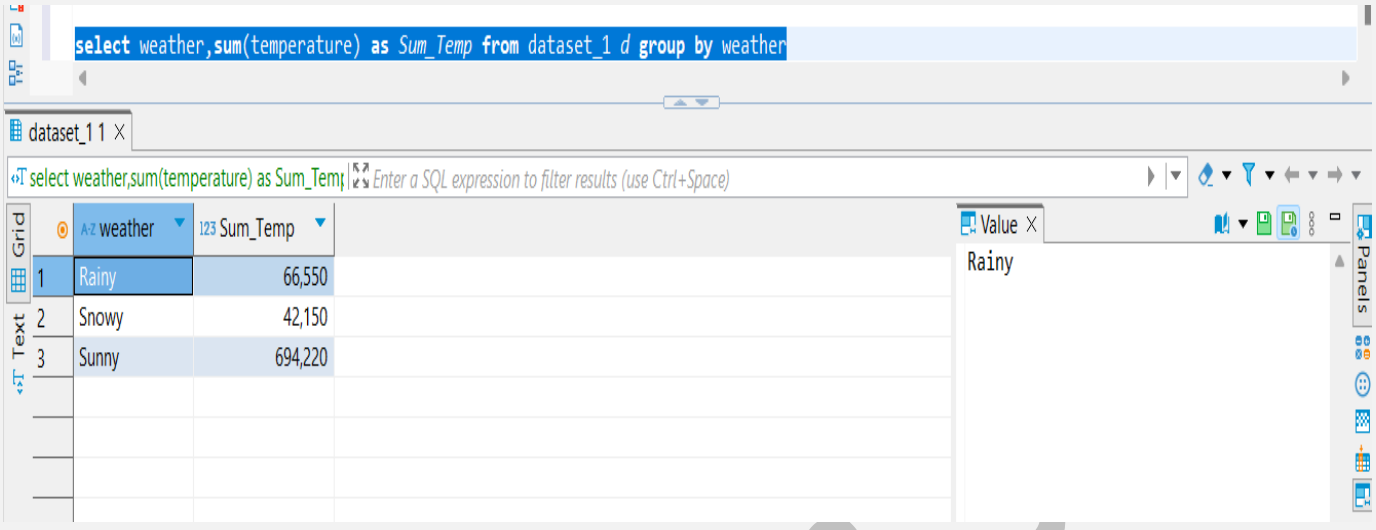


Python

_rawdf.groupby('weather')['temperature'].nunique().to_frame('Distinct_Count').reset_index()

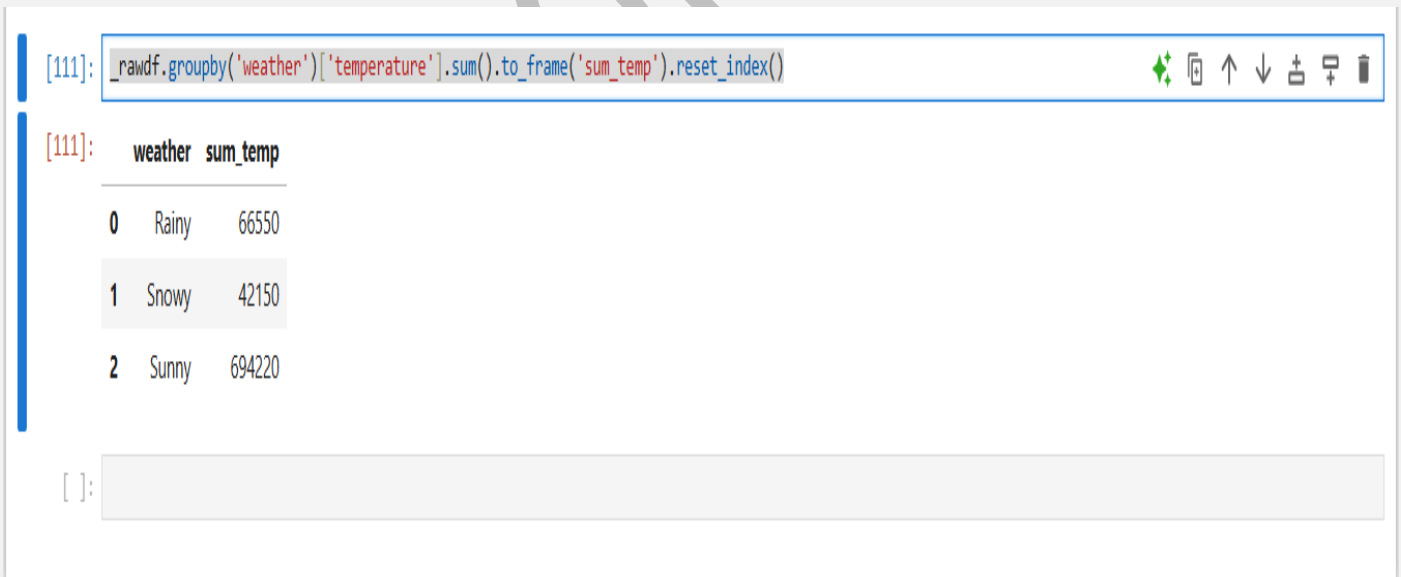
Sql

select weather,sum(temperature) as *Sum_Temp* from dataset_1 *d* group by weather



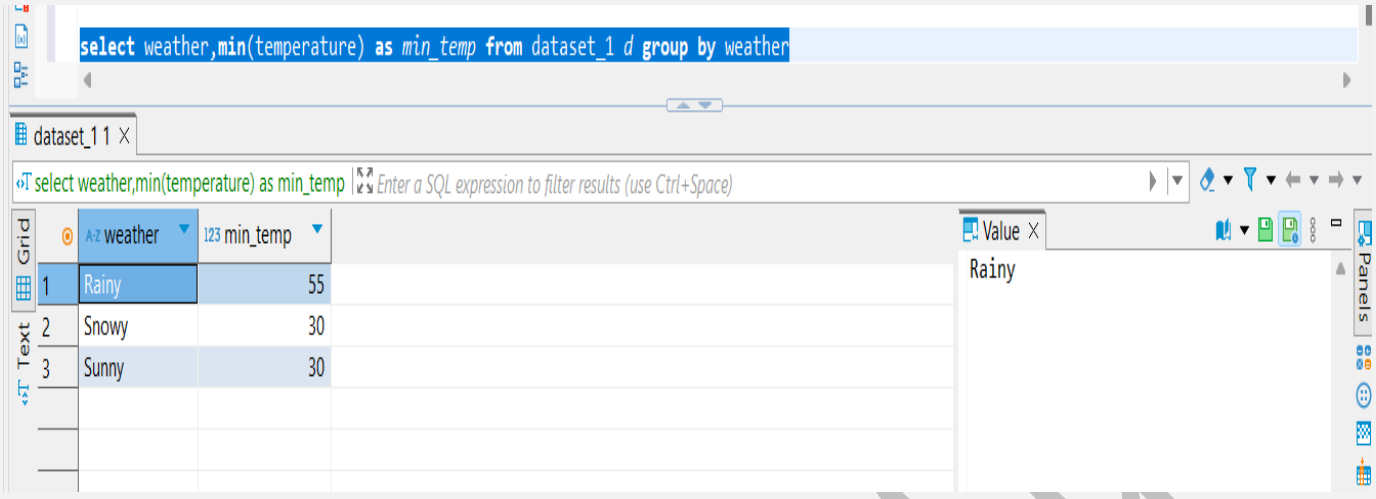
Python:

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



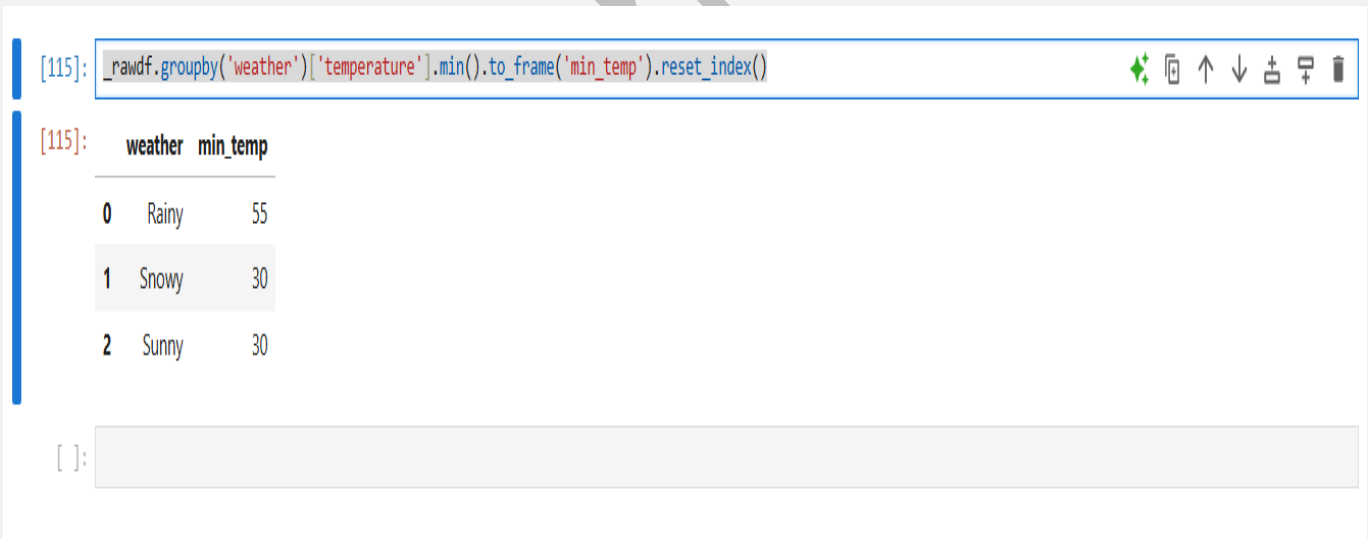
Sql:

select weather,min(temperature) as *min_temp* from dataset_1 *d* group by weather



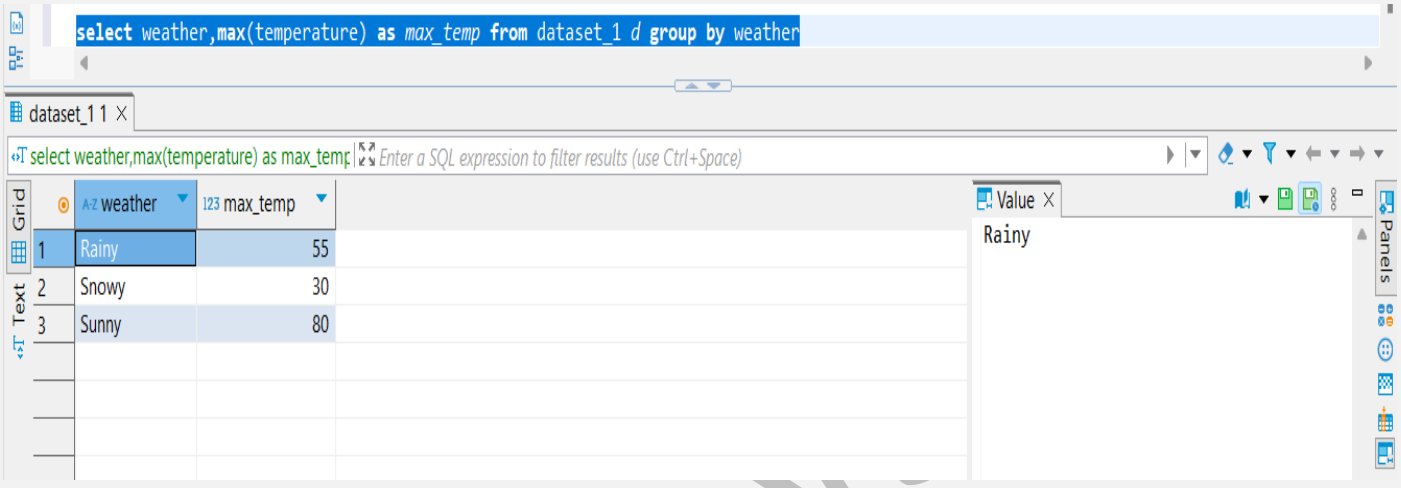
Python:

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



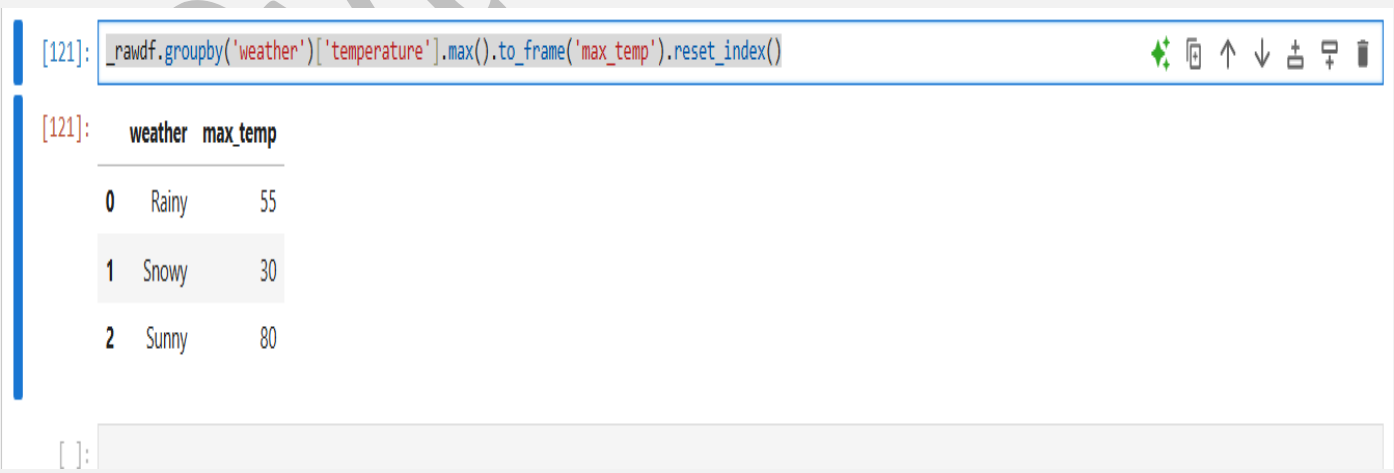
Sql

select weather,max(temperature) as *max_temp* from dataset_1 *d* group by weather



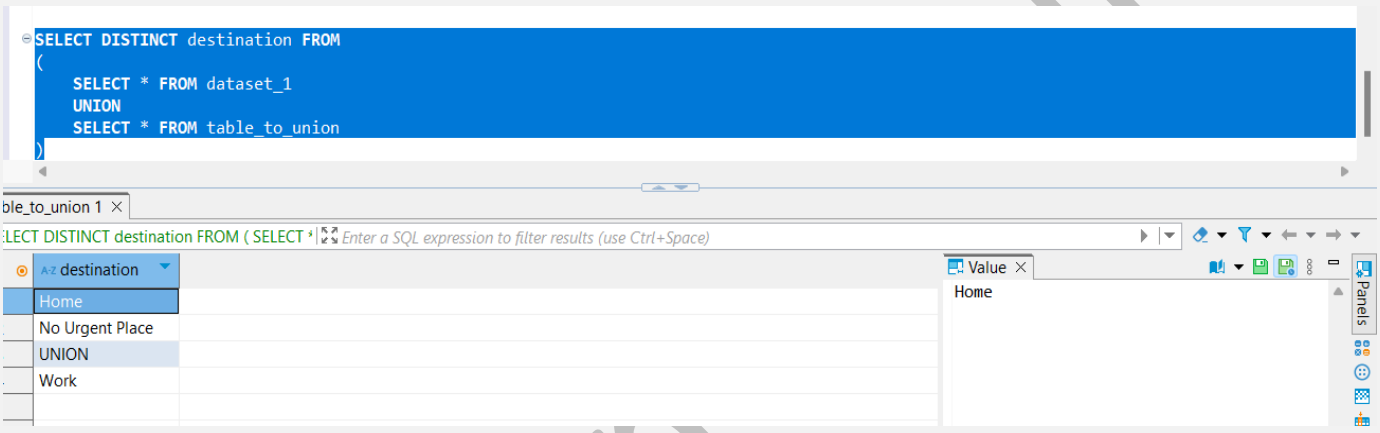
Python:

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



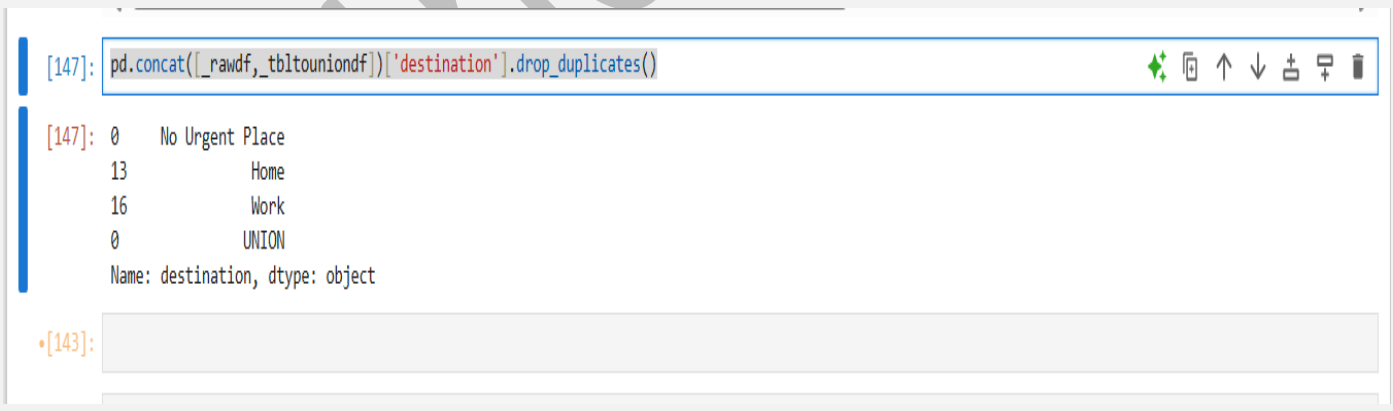
Sql:

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



Python:

```
pd.concat([_rawdf,_tbltouniondf])['destination'].drop_duplicates()
```

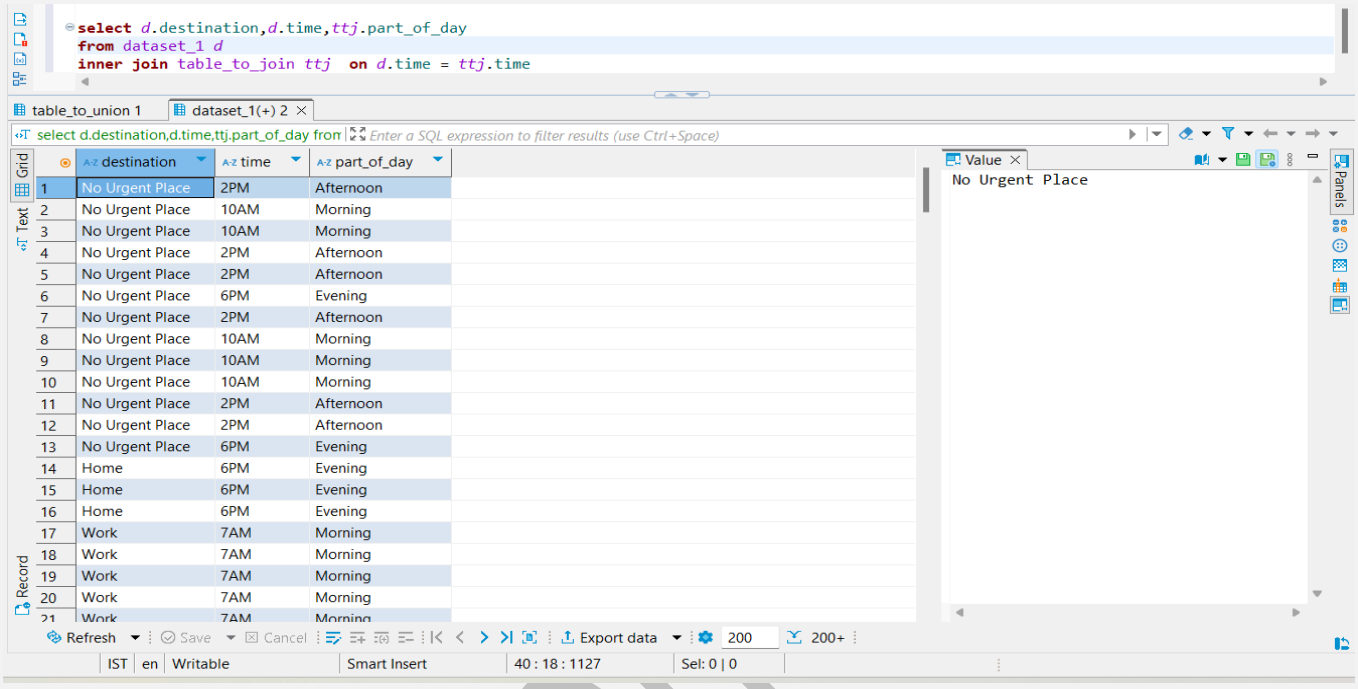


Joins Sql:

select *d*.destination,*d*.time,*ttj*.part_of_day

from dataset_1 *d*

inner join table_to_join *ttj* on *d*.time = *ttj*.time



Python:

pd.merge(_rawdf,_ttjdf,on='time',how='inner')[['destination', 'time', 'part_of_day']]

```
[159]: pd.merge(_rawdf,_ttjdf,on='time',how='inner')[['destination', 'time', 'part_of_day']]
```

[159]:

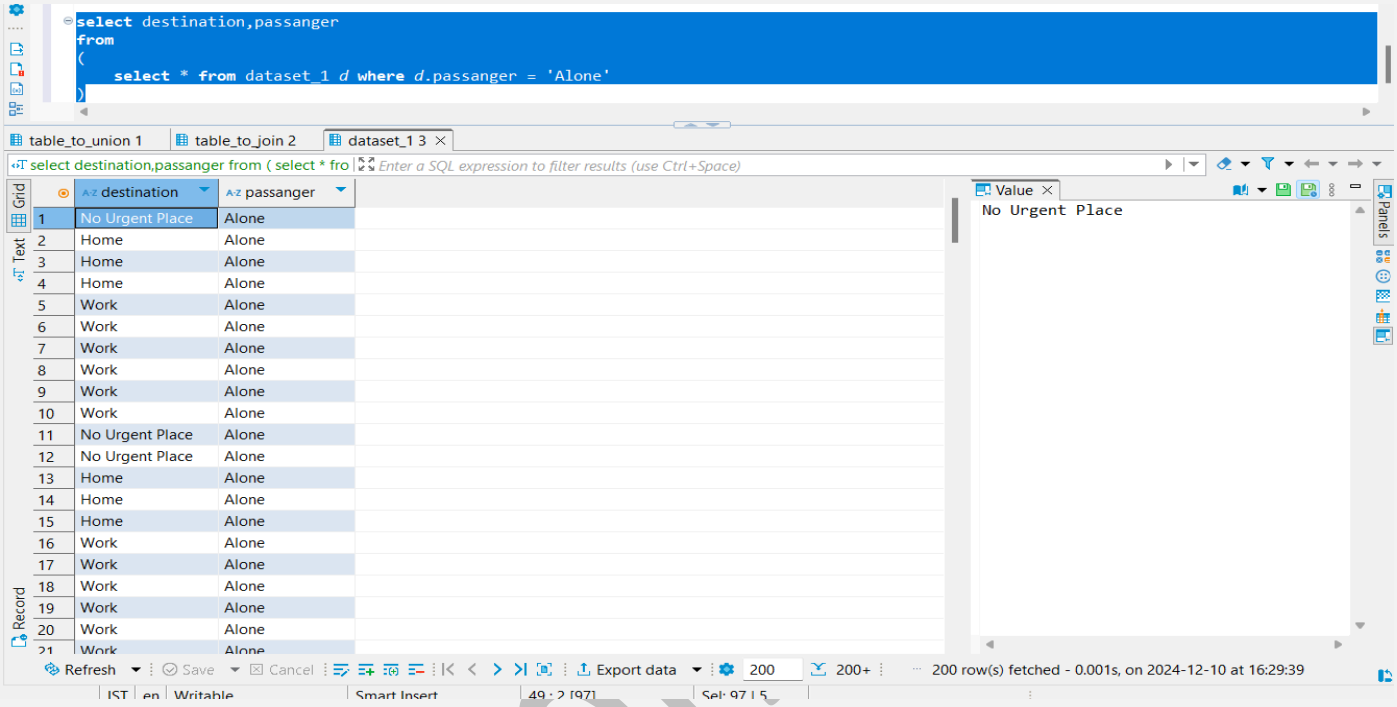
	destination	time	part_of_day
0	No Urgent Place	2PM	Afternoon
1	No Urgent Place	10AM	Morning
2	No Urgent Place	10AM	Morning
3	No Urgent Place	2PM	Afternoon
4	No Urgent Place	2PM	Afternoon
...	...	...	...
12679	Home	6PM	Evening
12680	Work	7AM	Morning
12681	Work	7AM	Morning
12682	Work	7AM	Morning
12683	Work	7AM	Morning

12684 rows × 3 columns

```
[ ]:
```

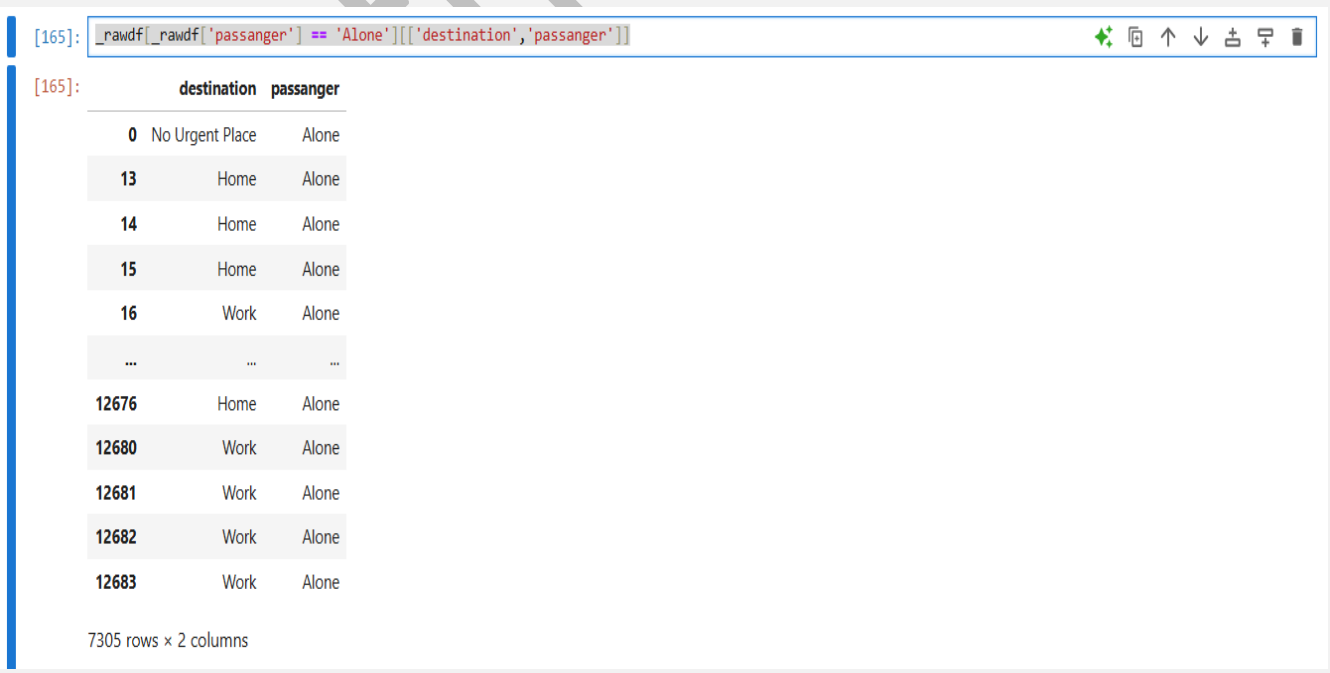
Sql:

```
select destination,passanger from
(
    select * from dataset_1 d where d.passanger = 'Alone'
)
```



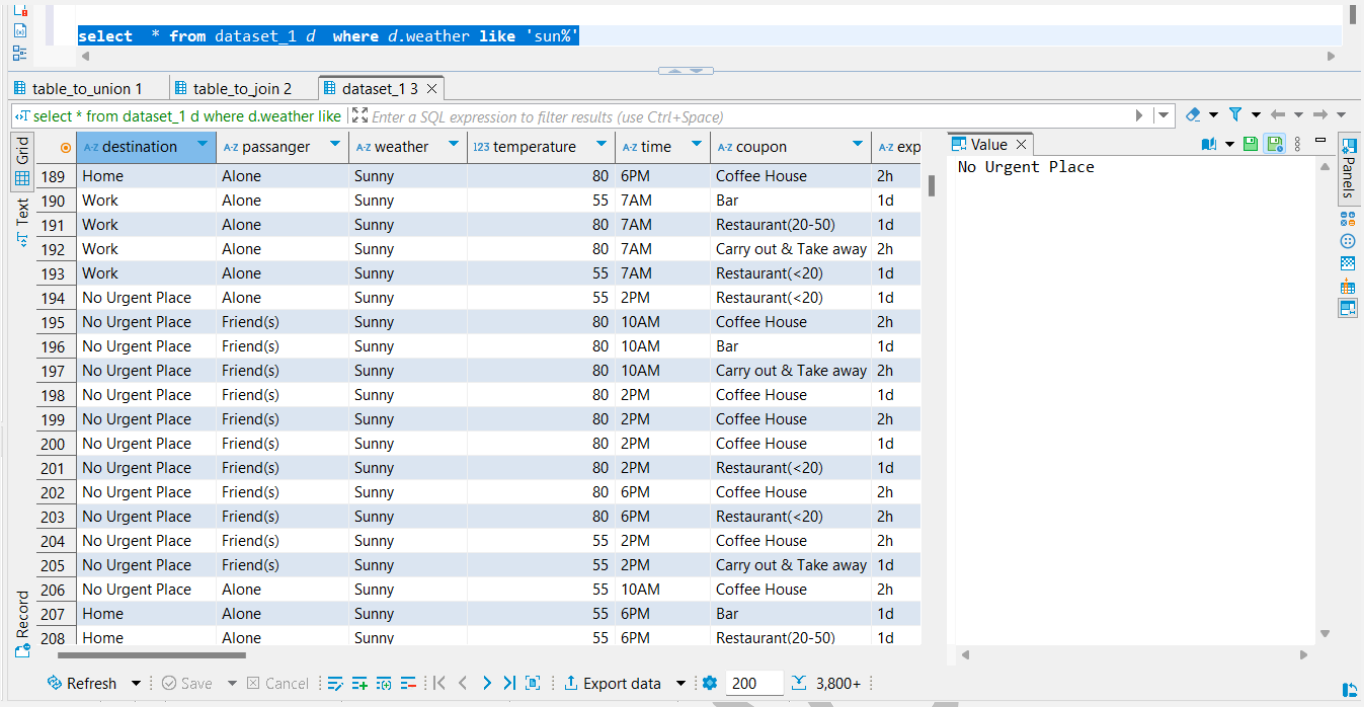
Python:

```
_rawdf[_rawdf['passanger'] == 'Alone'][['destination','passanger']]
```



SQl:

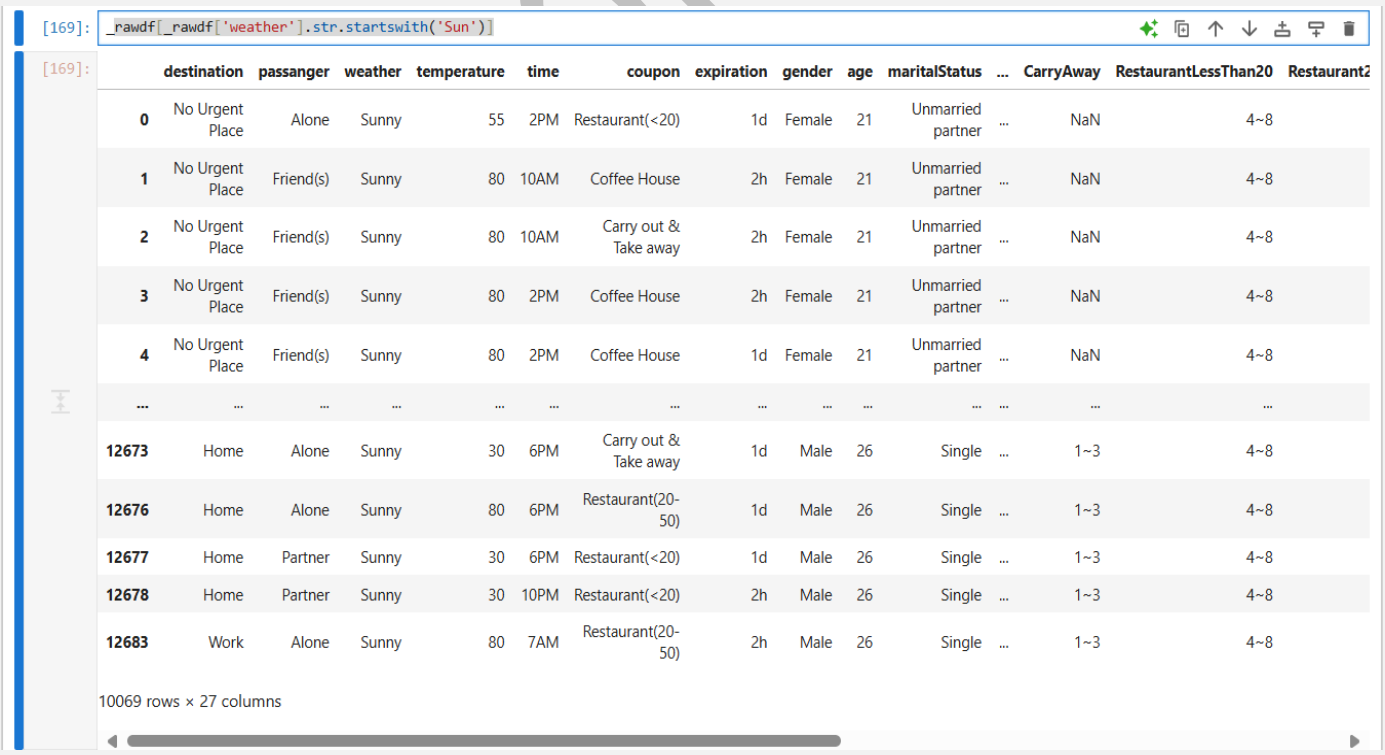
```
select  * from dataset_1 d  where d.weather like 'sun%'
```



	destination	passanger	weather	temperature	time	coupon	exp
189	Home	Alone	Sunny	80	6PM	Coffee House	2h
190	Work	Alone	Sunny	55	7AM	Bar	1d
191	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d
192	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h
193	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d
194	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d
195	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h
196	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
197	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h
198	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
199	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h
200	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
201	No Urgent Place	Friend(s)	Sunny	80	2PM	Restaurant(<20)	1d
202	No Urgent Place	Friend(s)	Sunny	80	6PM	Coffee House	2h
203	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h
204	No Urgent Place	Friend(s)	Sunny	55	2PM	Coffee House	2h
205	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d
206	No Urgent Place	Alone	Sunny	55	10AM	Coffee House	2h
207	Home	Alone	Sunny	55	6PM	Bar	1d
208	Home	Alone	Sunny	55	6PM	Restaurant(20-50)	1d

Python:

```
rawdf[_rawdf['weather'].str.startswith('Sun')]
```



```
[169]: _rawdf[_rawdf['weather'].str.startswith('Sun')]
```

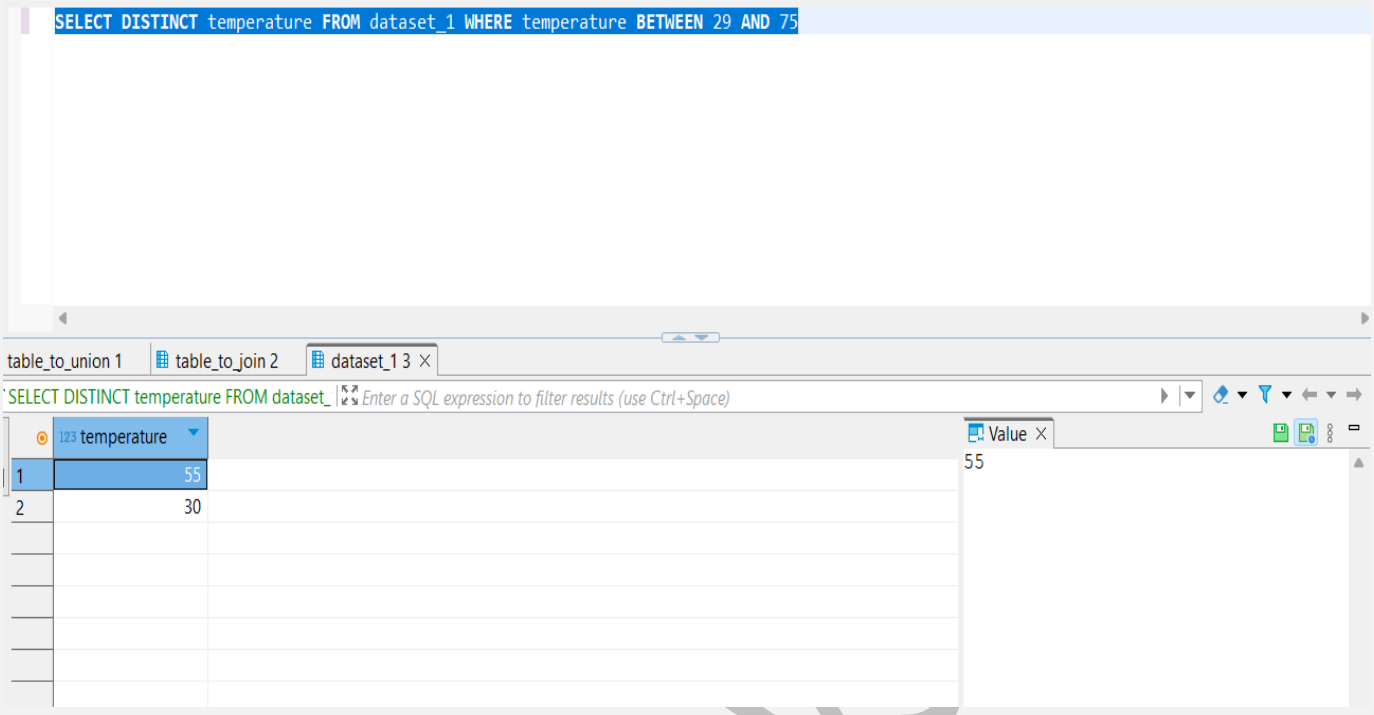
[169]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
0	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	
1	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	
3	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female	21	Unmarried partner	...	NaN	4~8	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12673	Home	Alone	Sunny	30	6PM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12676	Home	Alone	Sunny	80	6PM	Restaurant(20-50)	1d	Male	26	Single	...	1~3	4~8	
12677	Home	Partner	Sunny	30	6PM	Restaurant(<20)	1d	Male	26	Single	...	1~3	4~8	
12678	Home	Partner	Sunny	30	10PM	Restaurant(<20)	2h	Male	26	Single	...	1~3	4~8	
12683	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	2h	Male	26	Single	...	1~3	4~8	

10069 rows × 27 columns

SQL:

SELECT DISTINCT temperature FROM dataset_1 WHERE temperature BETWEEN 29 AND 75



Python:

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

SQL:

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

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

table_to_union 1 | table_to_join 2 | dataset_1 3

SELECT * FROM dataset_1 WHERE occupation | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger	weather	temperature	time	coupon	exp
1	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h
3	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d
4	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h
5	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
6	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h
7	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d
8	No Urgent Place	Friend(s)	Sunny	80	2PM	Restaurant(<20)	1d
9	No Urgent Place	Friend(s)	Sunny	80	6PM	Coffee House	2h
10	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h
11	No Urgent Place	Friend(s)	Sunny	55	2PM	Coffee House	2h
12	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take away	1d
13	No Urgent Place	Alone	Sunny	55	10AM	Coffee House	2h
14	Home	Alone	Sunny	55	6PM	Bar	1d
15	Home	Alone	Sunny	55	6PM	Restaurant(20-50)	1d
16	Home	Alone	Sunny	80	6PM	Coffee House	2h
17	Work	Alone	Sunny	55	7AM	Coffee House	2h
18	Work	Alone	Sunny	55	7AM	Bar	1d
19	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d
20	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h

Value: No Urgent Place

Refresh | Save | Cancel | Export data | 200 | 200+

Python:

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

```
[195]: _rawdf[(_rawdf['occupation'].isin(['Sales & Related','Management']))]
```

[195]:

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant2
193	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Male	21	Single	...	gt8	1~3	
194	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Male	21	Single	...	gt8	1~3	
195	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d	Male	21	Single	...	gt8	1~3	
196	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take away	2h	Male	21	Single	...	gt8	1~3	
197	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Male	21	Single	...	gt8	1~3	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12679	Home	Partner	Rainy	55	6PM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12680	Work	Alone	Rainy	55	7AM	Carry out & Take away	1d	Male	26	Single	...	1~3	4~8	
12681	Work	Alone	Snowy	30	7AM	Coffee House	1d	Male	26	Single	...	1~3	4~8	
12682	Work	Alone	Snowy	30	7AM	Bar	1d	Male	26	Single	...	1~3	4~8	
12683	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	2h	Male	26	Single	...	1~3	4~8	

1931 rows × 27 columns