Retrieve all data from the dataset

```
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	expiration	gender
1	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female
3	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take a	2h	Female
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female
5	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female
6	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h	Female
7	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take a	1d	Female
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h	Female
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take a	2h	Female
10	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Female
11	No Urgent Place	Kid(s)	Sunny	80	2PM	Restaurant(<20)	1d	Female
12	No Urgent Place	Kid(s)	Sunny	55	2PM	Restaurant(<20)	1d	Female
13	No Urgent Place	Kid(s)	Sunny	55	6PM	Coffee House	2h	Female
14	Home	Alone	Sunny	55	6PM	Bar	1d	Female
15	Home	Alone	Sunny	55	6PM	Restaurant(20-50)	1d	Female
16	Home	Alone	Sunny	80	6PM	Coffee House	2h	Female
17	Work	Alone	Sunny	55	7AM	Coffee House	2h	Female
18	Work	Alone	Sunny	55	7AM	Bar	1d	Female
19	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d	Female
20	Work	Alone	Sunny	80	7AM	Carry out & Take a	2h	Female
21	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d	Female
22	Work	Alone	Sunny	55	7AM	Coffee House	2h	Female

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

200 row(s) fetched - 0.012s (0.011s fetch), on 2024-04-12 at 17:10:01

Retrieve all data from the dataset

```
# SELECT * FROM dataset_1;

dataset_1
```

	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	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Fetch the data of first 10 rows from the dataset

```
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	expiration	gender
1	No Urgent Place	Alone	Sunny	55	2PM	Restaurant(<20)	1d	Female
2	No Urgent Place	Friend(s)	Sunny	80	10AM	Coffee House	2h	Female
3	No Urgent Place	Friend(s)	Sunny	80	10AM	Carry out & Take a	2h	Female
4	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	2h	Female
5	No Urgent Place	Friend(s)	Sunny	80	2PM	Coffee House	1d	Female
6	No Urgent Place	Friend(s)	Sunny	80	6PM	Restaurant(<20)	2h	Female
7	No Urgent Place	Friend(s)	Sunny	55	2PM	Carry out & Take a	1d	Female
8	No Urgent Place	Kid(s)	Sunny	80	10AM	Restaurant(<20)	2h	Female
9	No Urgent Place	Kid(s)	Sunny	80	10AM	Carry out & Take a	2h	Female
10	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Female

Fetch the data of first 10 rows from the dataset

```
# SELECT * FROM dataset_1  LIMIT 10;

dataset_1.head(10)
```

	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~

Select passenger and weather column from the dataset

```
SELECT passanger , weather FROM dataset_1 ;
```

dataset_1 1

SELECT passanger , weather FROM data: | Enter a SQL expression to filter results (use Ctrl+Space)

	passanger	weather
1	Alone	Sunny
2	Friend(s)	Sunny
3	Friend(s)	Sunny
4	Friend(s)	Sunny
5	Friend(s)	Sunny
6	Friend(s)	Sunny
7	Friend(s)	Sunny
8	Kid(s)	Sunny
9	Kid(s)	Sunny
10	Kid(s)	Sunny
11	Kid(s)	Sunny
12	Kid(s)	Sunny
13	Kid(s)	Sunny
14	Alone	Sunny
15	Alone	Sunny
16	Alone	Sunny
17	Alone	Sunny
18	Alone	Sunny
19	Alone	Sunny
20	Alone	Sunny
21	Alone	Sunny

Refresh | Save | Cancel | Export data | 200

200 row(s) fetched - 0.002s (0.001s fetch), on 2024-04-12 at 17:15:02

Select passanger and weather column from the dataset ¶

```
# SELECT passanger , weather FROM dataset_1;

dataset_1[['passanger','weather']]
```

	passanger	weather
0	Alone	Sunny
1	Friend(s)	Sunny
2	Friend(s)	Sunny
3	Friend(s)	Sunny
4	Friend(s)	Sunny
...	...	...
12679	Partner	Rainy
12680	Alone	Rainy
12681	Alone	Snowy
12682	Alone	Snowy

Select unique value for passenger from the dataset

*<SQLite Test.db> Script.sql

```
SELECT DISTINCT  passanger FROM dataset_1 ;
```

dataset_1 1

SELECT DISTINCT passanger FROM data | Enter a SQL expression to filter results (use Ctrl+Space)

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

Select unique value for passanger from the dataset

```
# SELECT DISTINCT  passanger FROM dataset_1;

dataset_1['passanger'].unique()
```

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

Retrieve all the data from the dataset whose destination is work

```
SELECT * FROM dataset_1 WHERE destination == 'Work'  ;
```

dataset_1 1

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

	destination	passanger	weather	temperature	time	coupon	expiration	ge
1	Work	Alone	Sunny	55	7AM	Coffee House	2h	Femal
2	Work	Alone	Sunny	55	7AM	Bar	1d	Femal
3	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d	Femal
4	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h	Femal
5	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d	Femal
6	Work	Alone	Sunny	55	7AM	Coffee House	2h	Femal
7	Work	Alone	Sunny	55	7AM	Coffee House	2h	Male
8	Work	Alone	Sunny	55	7AM	Bar	1d	Male
9	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d	Male
10	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h	Male
11	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d	Male
12	Work	Alone	Sunny	55	7AM	Coffee House	2h	Male
13	Work	Alone	Sunny	55	7AM	Coffee House	2h	Male
14	Work	Alone	Sunny	55	7AM	Bar	1d	Male
15	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d	Male
16	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h	Male
17	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d	Male
18	Work	Alone	Sunny	55	7AM	Coffee House	2h	Male
19	Work	Alone	Sunny	55	7AM	Coffee House	2h	Male
20	Work	Alone	Sunny	55	7AM	Bar	1d	Male

Retrieve all the data from the dataset whose destination is work

```
# SELECT * FROM dataset_1 WHERE destination == 'Work';

dataset_1[dataset_1['destination']=='Work']
```

	destination	passanger	weather	temperature	time	coupon	expiration	gender	age	maritalStatus	...	CarryAway	RestaurantLessThan20	Restaurant20
16	Work	Alone	Sunny	55	7AM	Coffee House	2h	Female	21	Unmarried partner	...	NaN	4~8	
17	Work	Alone	Sunny	55	7AM	Bar	1d	Female	21	Unmarried partner	...	NaN	4~8	
18	Work	Alone	Sunny	80	7AM	Restaurant(20-50)	1d	Female	21	Unmarried partner	...	NaN	4~8	
19	Work	Alone	Sunny	80	7AM	Carry out & Take away	2h	Female	21	Unmarried partner	...	NaN	4~8	
20	Work	Alone	Sunny	55	7AM	Restaurant(<20)	1d	Female	21	Unmarried partner	...	NaN	4~8	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	
						Restaurant(20-				Married				

Sorting entire data based on coupon

*<SQLite Test.db> Script.sql

```
SELECT * FROM dataset_1 ORDER BY COUPON ;
```

dataset_1 1

SELECT * FROM dataset_1 ORDER BY CC | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger	weather	temperature	time	coupon	expiration	ge
1	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Femal
2	Home	Alone	Sunny	55	6PM	Bar	1d	Femal
3	Work	Alone	Sunny	55	7AM	Bar	1d	Femal
4	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d	Male
5	Home	Alone	Sunny	55	6PM	Bar	1d	Male
6	Work	Alone	Sunny	55	7AM	Bar	1d	Male
7	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d	Male
8	Home	Alone	Sunny	55	6PM	Bar	1d	Male
9	Work	Alone	Sunny	55	7AM	Bar	1d	Male
10	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Male
11	Home	Alone	Sunny	55	6PM	Bar	1d	Male
12	Work	Alone	Sunny	55	7AM	Bar	1d	Male
13	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d	Male
14	Home	Alone	Sunny	55	6PM	Bar	1d	Male
15	Work	Alone	Sunny	55	7AM	Bar	1d	Male
16	No Urgent Place	Friend(s)	Sunny	80	10AM	Bar	1d	Male
17	Home	Alone	Sunny	55	6PM	Bar	1d	Male
18	Work	Alone	Sunny	55	7AM	Bar	1d	Male
19	No Urgent Place	Kid(s)	Sunny	80	10AM	Bar	1d	Femal
20	Home	Alone	Sunny	55	6PM	Bar	1d	Femal

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

Sorting entire data based on coupon ¶

```
# SELECT * FROM dataset_1 ORDER BY COUPON;

dataset_1.sort_values('coupon')
```

	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	No Urgent Place	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	No Urgent Place	Friend(s)	Rainy	55	10PM	Bar	2h	Male	26	Unmarried partner	...	4~8	never	
11166	Work	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	

Rename the specific column of the dataset

*<SQLite Test.db> Script.sql

```sql
SELECT destination  as 'Destination' , passanger as 'Passanger' from dataset_1 ;
```

dataset_1 1

SELECT destination as 'Destination' , pas | Enter a SQL expression to filter results (use Ctrl+Space)

	Destination	Passanger
1	No Urgent Place	Alone
2	No Urgent Place	Friend(s)
3	No Urgent Place	Friend(s)
4	No Urgent Place	Friend(s)
5	No Urgent Place	Friend(s)
6	No Urgent Place	Friend(s)
7	No Urgent Place	Friend(s)
8	No Urgent Place	Kid(s)
9	No Urgent Place	Kid(s)
10	No Urgent Place	Kid(s)
11	No Urgent Place	Kid(s)
12	No Urgent Place	Kid(s)
13	No Urgent Place	Kid(s)
14	Home	Alone
15	Home	Alone
16	Home	Alone
17	Work	Alone
18	Work	Alone
19	Work	Alone
20	Work	Alone
21	Work	Alone

Refresh Save Cancel Export data 200 200+

Rename the specific column of the dataset

```python
''' df.columns=df.columns.str.replace('destination', 'Destination') # 1st method
    df.rename(columns = {'passanger':'Passanger'}, inplace = True)  # 2nd method
    df
'''
```

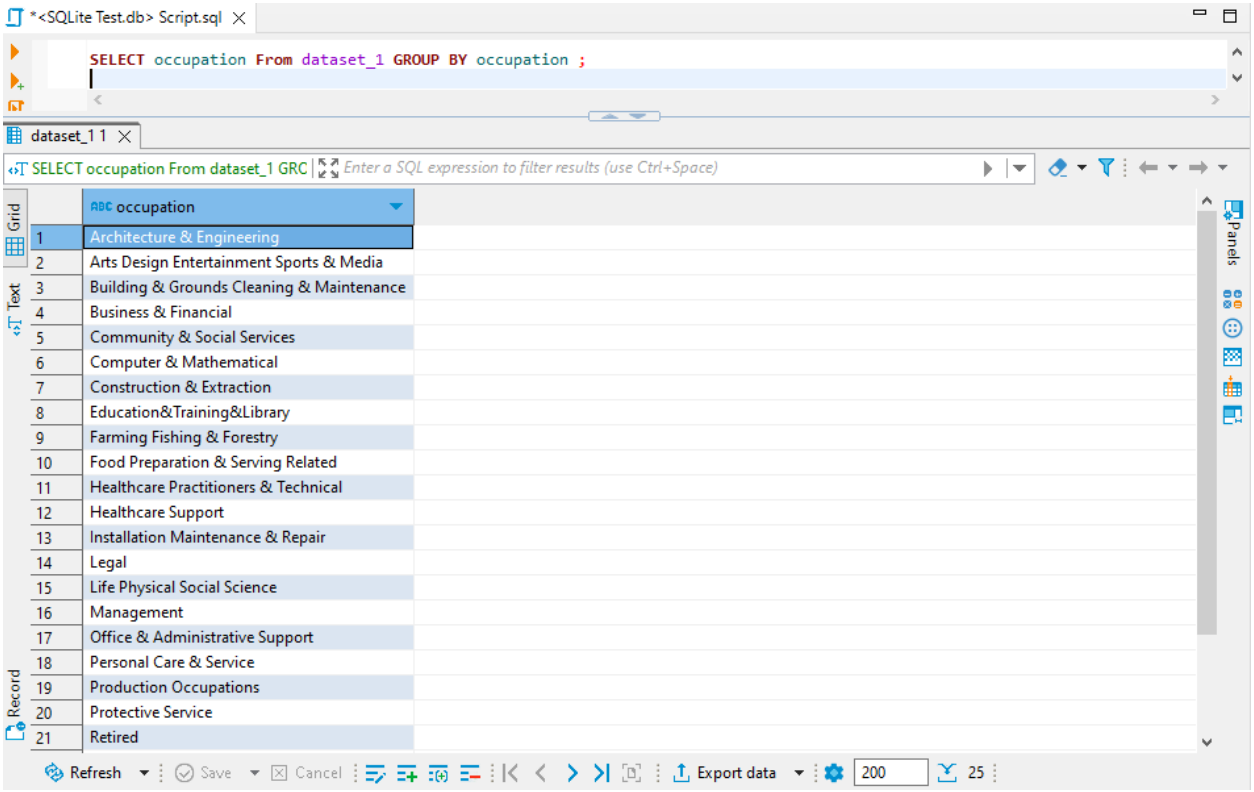
```
" df.columns=df.columns.str.replace('destination', 'Destination') # 1st method\n    df.rename(columns = {'passanger':'Passanger'}, inplace = True)  # 2nd method\n    df\n"
```

```python
# SELECT destination  as 'Destination' , passanger as 'Passanger' from dataset_1;

dataset_1.rename(columns={'destination': 'Destination', 'passenger': 'Passenger'}, inplace = True)
dataset_1
```

	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	

Grouping the occupation



Grouping the occupation

```
# SELECT occupation From dataset_1 GROUP BY occupation ;

dataset_1.groupby('occupation').size().reset_index(name='count')
```

	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

Find the average of temperature by grouping the weather

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

dataset_1 1

SELECT weather , AVG(temperature) as a | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	average_temp
1	Rainy	55
2	Snowy	30
3	Sunny	68.9462707319

Find the average of temperature by grouping the weather

```
# SELECT weather , AVG(temperature) as average_temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].mean().reset_index(name='average_temp')
```

	weather	average_temp
0	Rainy	55.000000
1	Snowy	30.000000
2	Sunny	68.946271

Find the count of temperature by grouping the weather

```
SELECT weather , Count(temperature) as count_temp FROM dataset_1 GROUP BY weather;
```

dataset_1 1

SELECT weather , Count(temperature) a: | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	count_temp
1	Rainy	1,210
2	Snowy	1,405
3	Sunny	10,069

Find the count of temperature by grouping the weather

```
# SELECT weather , Count(temperature) as count_temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].count().reset_index(name='count_temp')
```

	weather	count_temp
0	Rainy	1210
1	Snowy	1405
2	Sunny	10069

```
SELECT weather , Count(DISTINCT temperature) as count_distinct__temp FROM dataset_1 GROUP BY weather;
```

dataset_1 1

SELECT weather , Count(DISTINCT temp | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	count_distinct__temp
1	Rainy	1
2	Snowy	1
3	Sunny	3

```
# SELECT weather , Count(DISTINCT temperature) as count_distinct__temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].nunique().reset_index(name='count_distinct_temp')
```

	weather	count_distinct_temp
0	Rainy	1
1	Snowy	1
2	Sunny	3

Find the sum of temperature by grouping the weather

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

dataset_1 1

SELECT weather , SUM(temperature) as s | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	sum_temp
1	Rainy	66,550
2	Snowy	42,150
3	Sunny	694,220

Find the sum of temperature by grouping the weather

```
# SELECT weather , SUM(temperature) as sum_temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].sum().reset_index(name='sum_temp')
```

	weather	sum_temp
0	Rainy	66550
1	Snowy	42150
2	Sunny	694220

Find the minimum temperature by grouping the weather

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

dataset_1 1

SELECT weather , MIN(temperature) as r | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	min_temp
1	Rainy	55
2	Snowy	30
3	Sunny	30

Find the minimum temperature by grouping the weather

```
# SELECT weather , MIN(temperature) as min_temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].min().reset_index(name='min_temp')
```

	weather	min_temp
0	Rainy	55
1	Snowy	30
2	Sunny	30

Find the maximum temperature by grouping the weather

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

dataset_1 1

SELECT weather , MAX(temperature) as | Enter a SQL expression to filter results (use Ctrl+Space)

	weather	max_temp
1	Rainy	55
2	Snowy	30
3	Sunny	80

Find the maximum temperature by grouping the weather

```
# SELECT weather , MAX(temperature) as max_temp FROM dataset_1 GROUP BY weather;

dataset_1.groupby('weather')['temperature'].max().reset_index(name='max_temp')
```

	weather	max_temp
0	Rainy	55
1	Snowy	30
2	Sunny	80

Groups the filtered DataFrame where 'occupation' is 'student' and counts the occurrences of each group

```sql
SELECT occupation From dataset_1 GROUP BY occupation HAVING occupation ='Student' ;
```

dataset_1 1

SELECT occupation From dataset_1 GRC | Enter a SQL expression to filter results (use Ctrl+Space)

	occupation
1	Student

Groups the filtered DataFrame where 'occupation' is 'student' and counts the occurrences of each group.

```python
# SELECT occupation From dataset_1 GROUP BY occupation HAVING occupation ='Student' ;

dataset_1.groupby('occupation').filter(lambda x: x['occupation'].iloc[0] ==
'Student').groupby('occupation').size()
```

```
occupation
Student    1584
dtype: int64
```

Join the DataFrames and extract unique values from the 'Destination' column

*<SQLite Test.db> Script.sql

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

table_to_union 1

SELECT DISTINCT destination FROM(SEL | Enter a SQL expression to filter results (use Ctrl+Space)

	destination
1	Home
2	No Urgent Place
3	UNION
4	Work

Join the dataframes and extracting unique values from the 'Destination' column

[21]:
```
# SELECT DISTINCT destination FROM(SELECT * FROM dataset_1 UNION SELECT * FROM table_to_union);

pd.concat([dataset_1, table_to_union])['Destination'].drop_duplicates()
```

[21]:
```
0     No Urgent Place
13               Home
16               Work
0                 NaN
Name: Destination, dtype: object
```

Merge the two DataFrames using inner join

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

dataset_1(+) 1

SELECT a.destination,a.time,b.part_of_d | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	time	part_of_day
1	No Urgent Place	2PM	Afternoon
2	No Urgent Place	10AM	Morning
3	No Urgent Place	10AM	Morning
4	No Urgent Place	2PM	Afternoon
5	No Urgent Place	2PM	Afternoon
6	No Urgent Place	6PM	Evening
7	No Urgent Place	2PM	Afternoon
8	No Urgent Place	10AM	Morning
9	No Urgent Place	10AM	Morning
10	No Urgent Place	10AM	Morning
11	No Urgent Place	2PM	Afternoon
12	No Urgent Place	2PM	Afternoon
13	No Urgent Place	6PM	Evening
14	Home	6PM	Evening
15	Home	6PM	Evening
16	Home	6PM	Evening
17	Work	7AM	Morning
18	Work	7AM	Morning
19	Work	7AM	Morning
20	Work	7AM	Morning

Merge the two dataframes using inner join

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

pd.merge(dataset_1, table_to_join, on='time', how='inner')[['Destination', 'time', 'part_of_day']]
```

	Destination	time	part_of_day
0	No Urgent Place	2PM	Afternoon
1	No Urgent Place	2PM	Afternoon
2	No Urgent Place	2PM	Afternoon
3	No Urgent Place	2PM	Afternoon
4	No Urgent Place	2PM	Afternoon
...	...	...	...
12679	No Urgent Place	10PM	Night
12680	No Urgent Place	10PM	Night
12681	Home	10PM	Night
12682	Home	10PM	Night

Select the column destination and passenger where the 'passenger' is 'Alone'

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

dataset_1 1

SELECT destination , passanger FROM(S | Enter a SQL expression to filter results (use Ctrl+Space)

	destination	passanger
1	No Urgent Place	Alone
2	Home	Alone
3	Home	Alone
4	Home	Alone
5	Work	Alone
6	Work	Alone
7	Work	Alone
8	Work	Alone
9	Work	Alone
10	Work	Alone
11	No Urgent Place	Alone
12	No Urgent Place	Alone
13	Home	Alone
14	Home	Alone
15	Home	Alone
16	Work	Alone
17	Work	Alone
18	Work	Alone
19	Work	Alone
20	Work	Alone
21	Work	Alone

Select the column destination and passanger where the 'passenger' is 'Alone'

```
3]: # SELECT destination , passanger FROM(SELECT*FROM dataset_1 WHERE passanger = 'Alone');

dataset_1[dataset_1['passanger'] == 'Alone'][['Destination', 'passanger']]
```

3]:

	Destination	passanger
0	No Urgent Place	Alone
13	Home	Alone
14	Home	Alone
15	Home	Alone
16	Work	Alone
...	...	...
12676	Home	Alone
12680	Work	Alone
12681	Work	Alone
12682	Work	Alone

Retrieve the data that include only rows where the 'weather' column starts with the string 'Sun'.

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

dataset_1 1

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

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

Retrieve the data that include only rows where the 'weather' column starts with the string 'Sun'.

```
[24]: # SELECT * FROM dataset_1 WHERE weather LIKE 'Sun%';

dataset_1[dataset_1['weather'].str.startswith('Sun')]
```

[24]:

	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 &	1d	Male	26	Single	...	1~3	4~8	

Retrieve the unique data that include 'temperature' within the range from 29 to 75

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

dataset_1 1

SELECT DISTINCT temperature FROM da | Enter a SQL expression to filter results (use Ctrl+Space)

	123 temperature
1	55
2	30

Retrieve the unique data that include 'temperature' within the range from 29 to 75

```
[25]: # SELECT DISTINCT temperature FROM dataset_1 WHERE temperature BETWEEN 29 AND 75 ;

dataset_1[(dataset_1['temperature'] >= 29) & (dataset_1['temperature'] <= 75)]['temperature'].unique()
```

```
[25]: array([55, 30], dtype=int64)
```

Select the 'occupation' column that include values 'Sales & Related' or 'Management'

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

dataset_1 1

SELECT occupation FROM dataset_1 WH

Enter a SQL expression to filter results (use Ctrl+Space)

	occupation
1	Sales & Related
2	Sales & Related
3	Sales & Related
4	Sales & Related
5	Sales & Related
6	Sales & Related
7	Sales & Related
8	Sales & Related
9	Sales & Related
10	Sales & Related
11	Sales & Related
12	Sales & Related
13	Sales & Related
14	Sales & Related
15	Sales & Related
16	Sales & Related
17	Sales & Related
18	Sales & Related
19	Sales & Related
20	Sales & Related
21	Sales & Related

Refresh Save Cancel Export data 200 200+

Select the 'occupation' column that include values 'Sales & Related' or 'Management'

[26]:
```python
# SELECT occupation FROM dataset_1 WHERE occupation IN('Sales & Related','Management');

dataset_1[dataset_1['occupation'].isin(['Sales & Related', 'Management'])][['occupation']]
```

[26]:

	occupation
193	Sales & Related
194	Sales & Related
195	Sales & Related
196	Sales & Related
197	Sales & Related
...	...
12679	Sales & Related
12680	Sales & Related
12681	Sales & Related
12682	Sales & Related