SQL to pandas cheat sheet - SQL2pandas.pythonanywhere.com

SELECT FROM tips; COLUMNS	
	tips
tip	tips ['tip']
tip, time	tips [['tip', 'time']]
tip AS fee	tips .rename(columns = {'tip': 'fee'}) ['fee']
SELECT FROM tips; AGGREGATIONS	
COUNT(*)	tips.shape[0]
AVG(tip) SUM(tip) MAX(tip) MIN(tip)	tips['tip'].mean() .sum() .max() .min()
AVG(tip), SUM(total_bill)	tips .agg({'tip': 'mean', 'total_bill': 'sum'})
AVG(tip) AS mean, SUM(tip) AS total	tips .agg(mean = ('tip', 'mean') total = ('tip', 'sum'))
SELECT * FROM tips LIMIT 10;	
10	tips .head(10)

```
SELECT ___ FROM tips GROUP BY ___;
                         tips
                             .groupby('day')
           AVG(tip)
                             .agg({'tip': 'mean'})
                        tips
                             .groupby(['day', 'time'])
.agg({'tip': ['size', 'mean']})
              time,
           COUNT(*)
           AVG(tip)
SELECT * FROM tips WHERE ___;
           tip >= 1
                             [tips['tip'] >= 1]
           tip = 1
                             [tips['tip'] == 1]
           tip <= 1
                             [tips['tip'] <= 1]
           tip <> 1
                             [tips['tip'] != 1]
                            [(tips['tip'] >= 1) & (tips['tip'] <= 4)]
        tip BETWEEN
            1 AND 4
    tip NOT BETWEEN
                            [~((tips['tip'] >= 1) &
            1 AND 4
                              (tips['tip'] <= 4))]
                            [tips['tip']
   time LIKE '%unch
   time LIKE 'Lunc%
                                     .endswith('unch')
   time LIKE '%unc%
                                     .startswith('Lunc')
                                     .contains('%unch%')]
```

```
SELECT ___ FROM tips GROUP BY ___
                        .groupby('day')
.filter(lambda group:
   COUNT(*) > 10
                           len(qroup) > 10)
                        .groupby('day')
                        .agg({'tip': 'mean'})
CONDITIONAL COLUMNS: CASE WHEN
                   tips
        tips > 5
                        .assign(tip_type = tips['tip']
    THEN 'large'
                        .apply(lambda tip:
                            'large' if tip > 5
  ELSE 'regular'
 END AS tip_type
                                  else 'reqular'))
                       ['tip_type']
                   tips
        tips > 5
                        .assign(tip_type = tips['tip']
    THEN 'large'
                        .apply(lambda tip:
    WHEN tip < 1
                            'large' if tip > 5
    THEN 'small'
                                  else ('small' if tip < 1
  ELSE 'regular'
                                         else 'regular')))
 END AS tip_type
                       ['tip_type']
CALCULATED COLUMNS: *, -, +, /
  tip/total_bill
                        .assign(tip_rate =
     AS tip_rate
                           tips['tip']/tips['total_bill'])
                       ['tip_rate']
```

Try statements interactively at SQL2pandas.pythonanywhere.com