

Window functions Examples

```
SELECT town, month, sale_price,  
       AVG(sale_price)  
         OVER( PARTITION BY town )  
         AS average_town_sales  
FROM county_sales  
ORDER BY town;
```

town	month	sale_price
Kenner	3	150000
LaPlace	4	198000
Kenner	4	208000
Gretna	3	195000
Kenner	3	185000
Spring	5	145000
LaPlace	5	130000
LaPlace	4	188000
Kenner	4	188000
Gretna	3	218500
Kenner	3	180000

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       OVER( PARTITION BY town )
       AS average_town_sales
FROM county_sales
ORDER BY town;
```

town	month	sale_price	average_town_sales
Gretna	3	195000	206750.0000
Gretna	3	218500	206750.0000
Kenner	3	150000	182200.0000
Kenner	4	208000	182200.0000
Kenner	3	185000	182200.0000
Kenner	4	188000	182200.0000
Kenner	3	180000	182200.0000
LaPlace	4	198000	172000.0000
LaPlace	5	130000	172000.0000
LaPlace	4	188000	172000.0000
Spring	5	145000	145000.0000

Window functions Examples

```
SELECT event, hour,  
       hour - LAG(hour)  
       OVER(  
         PARTITION BY event  
         ORDER BY hour ASC)  
         AS time_since_last  
FROM baby_log  
WHERE event IN ('feeding', 'diaper')  
ORDER BY hour ASC;
```

```
+-----+-----+  
| event  | hour  |  
+-----+-----+  
| feeding |    1  |  
| cough   |    1  |  
| diaper  |    3  |  
| feeding |    4  |  
| diaper  |    5  |  
| diaper  |    5  |  
| feeding |    7  |  
| cough   |    7  |  
+-----+-----+
```

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       hour - LAG(hour)  
       OVER(  
         PARTITION BY event  
         ORDER BY hour ASC)  
         AS time_since_last  
FROM baby_log  
WHERE event IN ('feeding', 'diaper')  
ORDER BY hour ASC;
```

event	hour	time_since_last
feeding	1	NULL
diaper	3	NULL
feeding	4	3
diaper	5	2
diaper	5	0
feeding	7	3