

# **Distinct and Subselects**

Distinct

```
select category from restaurant;
```

category
pizza
burger
burger
indian
sandwich
sandwich
chinese
pizza
food court

```
select distinct(category) from restaurant;
```

category
chinese
food court
burger
indian
pizza
sandwich

# Distinct On

```
select distinct(category) from restaurant;
```

almost like

```
select distinct on (category) category from restaurant;
```

# Distinct On

```
select * from restaurant;
```

id	name	address	category	zipcode
1	Buckhead Pizza	3324 Peachtree Rd NE B, Atlanta, GA 30326	pizza	30326
2	Farm Burger	3365 Piedmont Rd NE, Atlanta, GA 30305	burger	30305
4	NaanStop	3420 Piedmont Rd NE, Atlanta, GA 30305	indian	30305
5	Jack's New York Deli	Terminus 100, 3333 Piedmont Rd NE #120, Atlanta, GA 30305	sandwich	30305
6	Jason's Deli	Peachtree Piedmont Cross Shopping Center, 3330 Piedmont Rd NE, Atlanta, GA 30305	sandwich	30305
7	Chow Bing	3330 Piedmont Rd NE #22B, Atlanta, GA 30305	chinese	30305
8	Piu Bello	Peachtree Piedmont Cross Shopping Center, 3330 Piedmont Rd NE, Atlanta, GA 30305	pizza	30305
9	Wells Fargo Cafeteria	3475 Piedmont Rd NE # 800, Atlanta, GA 30305	food court	30305
3	The Varsity	61 North Avenue NW, Atlanta, GA 30308	burger	30308

# Distinct On

```
select distinct on (category) * from restaurant;
```

id	name	address	category	zipcode
2	Farm Burger	3365 Piedmont Rd NE, Atlanta, GA 30305	burger	30305
7	Chow Bing	3330 Piedmont Rd NE #22B, Atlanta, GA 30305	chinese	30305
9	Wells Fargo Cafeteria	3475 Piedmont Rd NE # 800, Atlanta, GA 30305	food court	30305
4	NaanStop	3420 Piedmont Rd NE, Atlanta, GA 30305	indian	30305
1	Buckhead Pizza	3324 Peachtree Rd NE B, Atlanta, GA 30326	pizza	30326
6	Jason's Deli	Peachtree Piedmont Cross Shopping Center, 3330 Piedmont Rd NE, Atlanta, GA 30305	sandwich	30305

Removes the duplicates

Subselects



# Subselects

```
select  
    *  
from  
    (...) my_subquery;
```

Average reviews per reviewer?

# First get review count for each reviewer

```
1 select
2     reviewer.id,
3     reviewer.name,
4     count(review.id)
5 from
6     reviewer
7 inner join review
8     on review.reviewer_id = reviewer.id
9 group by
10    reviewer.id;
```

< ⌚ > Load Query... Save Query... Cancel Execute Statement

id	name	count
2	Trista	2
4	Che	1
1	Carolyn	1
3	Eli	2

We have this query to get the review count per reviewer

# Example: Get average # of reviews per reviewer

```
11
12 select
13     avg(count)
14 from
15     (select
16         reviewer.id,
17         reviewer.name,
18         count(review.id)
19     from
20         reviewer
21     inner join review
22         on review.reviewer_id = reviewer.id
23     group by
24         reviewer.id) as reviews_counts;
```

< ⌚ > Load Query... Save Query... Cancel Execute Statement

avg
1.5

We can select from the result of that select.