

Aggregate Functions

1

```
SELECT title, MIN(publication_year) as year  
from books
```

2

```
SELECT count(director)  
from movies
```

3

```
SELECT avg(length_minutes)  
from movies  
where year > 2000
```

4

```
select role, avg(salary) as avg_salary  
from employees  
group by role
```

5

```
select role, avg(salary) as avg_salary  
from employees  
group by role  
order by avg_salary ASC
```

6

```
select department_id, sum(salary) as total_salary  
from employees  
group by department_id
```

Multiple Tables

1

```
select name, city  
from departments, city  
where city.id = departments.city_id
```

2

```
select employees.name, city, population  
from employees, departments, city  
where employees.department_id = departments.id and departments.city_id = city.id
```

3

```
select departments.name, budget, sum(salary) as total_salary  
from departments, employees  
where departments.id = employees.department_id  
group by departments.name
```

4

```
select director, avg(rating) as avg_rating  
from movies, boxoffice  
where boxoffice.movie_id=movies.id  
group by director
```

5

```
select title, domestic_sales, international_sales  
from movies,boxoffice  
where boxoffice.movie_id=movies.id
```