# **AGGREGATE FUNCTIONS**

### 1.AVG

select AVG(salary) from employees;

#### **OUTPUT:**

	AVG(salary)
•	8060.000000

### 2.COUNT

select department\_id,COUNT(\*) from employees GROUP BY
department\_id;

#### **OUTPUT**:

	department_id	COUNT(*)
•	1	1
	2	2
	3	6
	4	1
	5	7
	6	5
	7	1
	8	6
	9	3
	10	6
	11	2

# 3.MAX

select employee\_id,first\_name,last\_name,salary from employees
where salary = (select MAX(salary) from employees);

#### **OUTPUT:**

employee_id	first_name	last_name	salary
100	Steven	King	24000.00

## **4.MIN**

select employee\_id,first\_name,last\_name,salary from employees
where salary = (select MIN(salary) from employees);

#### **OUTPUT:**

	employee_id	first_name	last_name	salary
•	119	Karen	Colmenares	2500.00

### **5.SUM**

select SUM(salary) from employees where department\_id = 5;

#### **OUTPUT:**

SUM(salary) 41200

### **GROUP BY**

select department\_id,COUNT(employee\_id) headcount from emplo GROUP BY department\_id;

#### **OUTPUT:**

	department_id	headcount
•	1	1
	2	2
	3	6
	4	1
	5	7
	6	5
	7	1
	8	6
	9	3
	10	6
	11	2

# HAVING CLAUSE

select manager\_id,first\_name,last\_name,COUNT(employee\_id) direct\_reports from employees where manager\_id IS NOT NULL GROUP BY manager\_id;

### **OUTPUT:**

	manager_id	first_name	last_name	direct_reports
•	100	Neena	Kochhar	10
	101	Nancy	Greenberg	5
	102	Alexander	Hunold	1
	103	Bruce	Ernst	4
	108	Daniel	Faviet	5
	114	Alexander	Khoo	5
	120	Irene	Mikkilineni	1
	123	Sarah	Bell	2
	149	Jonathon	Taylor	4
	201	Pat	Fay	1
	205	William	Gietz	1

## **ORDER BY**

select employee\_id,first\_name,last\_name,hire\_date,salary from employees ORDER BY salary desc;

#### **OUTPUT:**

employee_id	first_name	last_name	hire_date	salary
100	Steven	King	1987-06-17	24000.00
101	Neena	Kochhar	1989-09-21	17000.00
102	Lex	De Haan	1993-01-13	17000.00
145	John	Russell	1996-10-01	14000.00
146	Karen	Partners	1997-01-05	13500.00
201	Michael	Hartstein	1996-02-17	13000.00
108	Nancy	Greenberg	1994-08-17	12000.00