# DATABASE MANAGEMENT SYSTEMS SQL - PRACTICE 2

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**COURSE CODE: CSA0564** 

SELECT MAX(salary)

FROM Employee;



SELECT MIN(salary)

FROM Employee;



SELECT SUM(salary)

**FROM Employee** 

WHERE emp\_id >105;



SELECT AVG(salary)

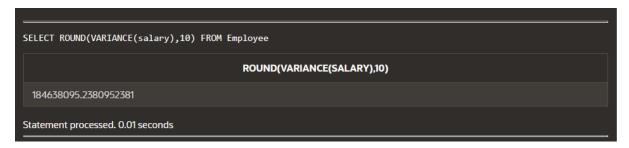
**FROM Employee** 

WHERE emp\_id <105;



## SELECT ROUND(VARIANCE(salary),10)

### FROM Employee;



## SELECT ROUND(STDDEV(salary),10)

### FROM Employee;



SELECT firstName, MAX(salary)

FROM Employee

WHERE emp\_id>105

GROUP BY firstName;

SELECT firstName, MAX(salary) FROM Employee WHERE emp_id>105 GROUP BY firstName	
FIRSTNAME	MAX(SALARY)
Hannah	43000
Ernie	40000
Blaise	62000
Theodore	61000
Cho	25000
Susan	40000
Justin	23000
Pansy	53000
Draco	75000
Dean	44000
10 rows selected. 0.00 seconds	

## SELECT MIN(salary), MAX(salary)

## FROM Employee;

SELECT MIN(salary), MAX(salary) FROM Employee	
MIN(SALARY)	MAX(SALARY)
23000	75000
Statement processed. 0.00 seconds	

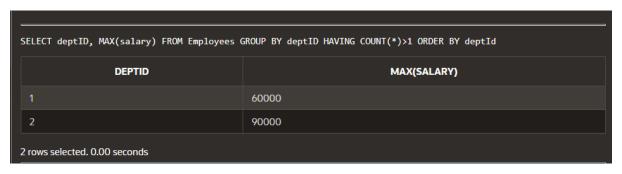
SELECT deptID, MAX(salary)

FROM Employees

GROUP BY deptID

HAVING COUNT(\*)>1

ORDER BY deptId;



SELECT COUNT(deptID)

### FROM Employees;



SELECT COUNT(\*)

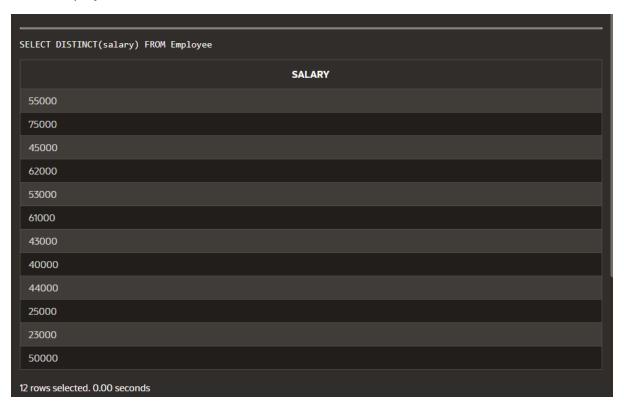
**FROM Employees** 

WHERE salary>60000;



SELECT DISTINCT(salary)

FROM Employee;



SELECT SUM (DISTINCT salary)

**FROM Employee** 

### WHERE emp\_id<105;



## SELECT AVG(NVL(salary,0))

## FROM Employee;



SELECT lastName, MAX(salary)

FROM Employee

**GROUP BY lastName** 

ORDER BY lastName;

SELECT lastName, MAX(salary) FROM Employee GROUP BY lastName ORDER BY lastName	
LASTNAME	MAX(SALARY)
Abbot	43000
Bones	40000
Chang	25000
Flenchy	23000
Granger	55000
Longbottom	53000
Lovegoog	45000
Malfoy	75000
McMillan	40000
Nott	61000
Parkinson	53000
Potter	50000
Thomas	44000
Weasley	40000
Zabini	62000
15 rows selected. 0.00 seconds	

SELECT lastName, COUNT(salary)

FROM Employee

GROUP BY lastName

ORDER BY lastName;

SELECT lastName, COUNT(salary) FROM Employee GROUP BY lastName ORDER BY lastName	
LASTNAME	COUNT(SALARY)
Abbot	1
Bones	1
Chang	1
Flenchy	1
Granger	1
Longbottom	1
Lovegoog	1
Malfoy	1
McMillan	1
Nott	1
Parkinson	1
Potter	1
Thomas	1
Weasley	1
Zabini	1
15 rows selected. 0.01 seconds	

SELECT emp\_id, COUNT(salary)

FROM Employee

WHERE lastName!= 'Parkinson'

GROUP BY emp\_id

ORDER BY emp\_id;

SELECT emp_id, COUNT(salary) FROM Employee WHERE lastName!= 'Parkinson' GROUP BY emp_id ORDER BY emp_id	
EMP_ID	COUNT(SALARY)
101	1
102	1
103	1
104	1
105	1
106	1
107	1

14 rows selected. 0.00 seconds

108

SELECT firstName, ROUND(AVG (salary)) AS "average salary"

FROM Employee

GROUP BY firstName

ORDER BY firstName;

SELECT firstName, ROUND(AVG (salary)) AS "average salary" FROM Employee GROUP BY firstName ORDER BY firstName **FIRSTNAME** average salary Blaise 62000 Cho 25000 44000 Dean Draco 75000 40000 Ernie 43000 Hannah 50000 Harry Hermione 55000 23000 Justin 45000 Luna Neville 53000 Pansy 53000 Ron 40000 40000 Susan 61000 Theodore 15 rows selected. 0.01 seconds

SELECT firstName, emp\_id, COUNT(salary) AS "average salary"

**FROM Employee** 

WHERE emp\_id>107

GROUP BY firstName, emp\_id;

SELECT firstName, emp\_id, COUNT(salary) AS "average salary" FROM Employee WHERE emp\_id>107 GROUP BY firstName, emp\_id FIRSTNAME EMP\_ID average salary 109 Pansy Susan 112 Dean 108 Theodore Hannah 110 Justin Cho 114 8 rows selected. 0.00 seconds

SELECT firstName,

COUNT(salary) AS "average salary"

FROM Employee

**GROUP BY firstName** 

HAVING MIN(salary)>60000

ORDER BY firstName;

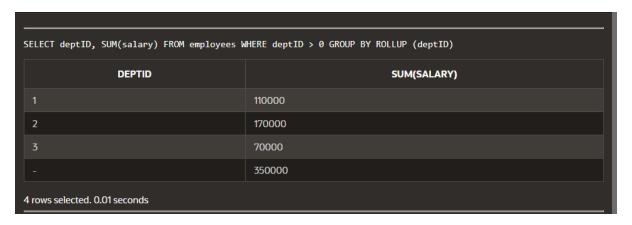


SELECT deptID, SUM(salary)

FROM employees

WHERE deptID > 0

GROUP BY ROLLUP (deptID);

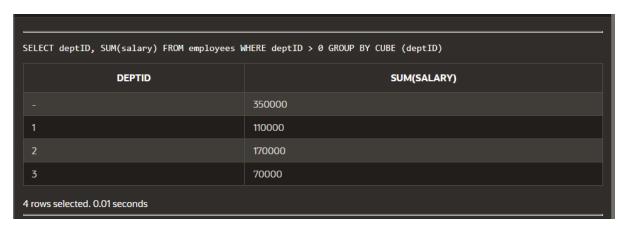


SELECT deptID, SUM(salary)

FROM employees

WHERE deptID > 0

GROUP BY CUBE (deptID);



SELECT dept\_Id, emp\_id, lastName, SUM(salary)

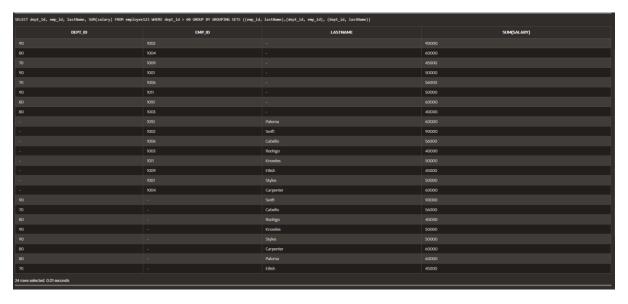
FROM employee123

WHERE dept\_id > 60

**GROUP BY GROUPING SETS** 

((emp\_id, lastName),(dept\_id, emp\_id),

(dept\_id, lastName));



SELECT dept\_Id, emp\_id, SUM(salary),

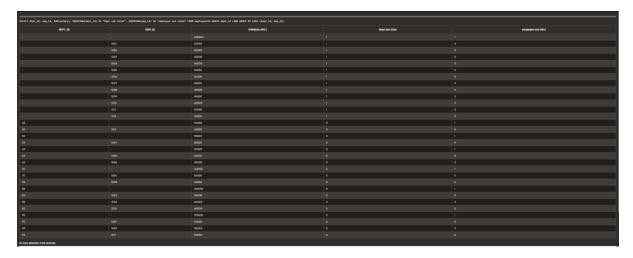
GROUPING(dept\_id) AS "Dept sub total",

GROUPING(emp\_id) AS "employee sub total"

FROM employee123

WHERE dept\_id <100

GROUP BY CUBE (dept\_id, emp\_id);



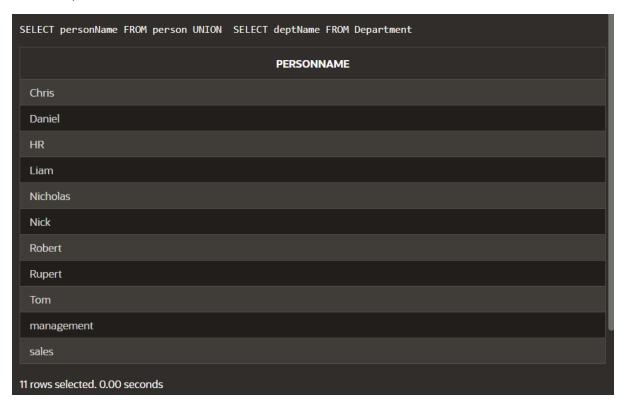
SELECT personName

FROM person

UNION

SELECT deptName

FROM Department;



SELECT personName

FROM person

**UNION ALL** 

SELECT deptName

FROM Department;

SELECT personName FROM person UNION ALL SELECT deptName FROM Department	
PERSONNAME	
Liam	
Chris	
Nick	
Nicholas	
Robert	
Daniel	
Rupert	
Tom	
sales	
management	
sales	
management	
HR	
management	
14 rows selected. 0.01 seconds	

SELECT personName

FROM person

MINUS

SELECT deptName

FROM Department;

SELECT personName FROM person MINUS SELECT deptName FROM Department
PERSONNAME
Chris
Daniel
Liam
Nicholas
Nick
Robert
Rupert
Tom
8 rows selected. 0.01 seconds

SELECT totalAmount,orderID

FROM orders

**UNION** 

 ${\sf SELECTTO\_NUMBER(NULL), deptID}$ 

FROM Department;

SELECT totalAmount,orderID FROM orders UNION SELECT TO_NUMBER(NULL),deptID FROM Department	
TOTALAMOUNT	ORDERID
100	4
150	2
200	5
250	1
300	3
	101
	102
	103
8 rows selected. 0.00 seconds	

SELECT totalAmount,orderID

FROM orders

UNION

 ${\sf SELECTTO\_NUMBER(NULL), deptID}$ 

### FROM Department

#### ORDER BY orderID;

SELECT totalAmount,orderID FROM orders UNION SELECT TO_NUMBER(NULL),deptID FROM Department ORDER BY orderID	
TOTALAMOUNT	ORDERID
250	1
150	2
300	3
100	4
200	5
	101
	102
	103
8 rows selected. 0.01 seconds	

CREATE TABLE classes(personID numeric,

personName varchar(30));

INSERT INTO classes VALUES(5, 'Rahul');

COMMIT;

UPDATE classes SET personName='Abhijit' WHERE personID ='5';

SAVEPOINT A;

INSERT INTO classes VALUES(6,'Chris');

SAVEPOINT B;

INSERT INTO classes VALUES(7, 'Bravo');

SAVEPOINT C;

SELECT \* FROM classes;

CREATE TABLE classes(personID numeric,	personName varchar(30))
Table created. 0.01 seconds	
INSERT INTO classes VALUES(5,'Rahul')	
1 row(s) inserted. 0.01 seconds	
COMMIT	
Statement processed. 0.00 seconds	
UPDATE classes SET personName='Abhijit' WHERE personID ='5'	
1 row(s) updated. 0.00 seconds	
INSERT INTO classes VALUES(6,'Chris')	
1 row(s) inserted. 0.01 seconds	
INSERT INTO classes VALUES(7, 'Bravo')	
1 row(s) inserted. 0.00 seconds	
SELECT * FROM classes	

SELECT * FROM classes	
PERSONID	PERSONNAME
5	Abhijit
6	Chris
7	Bravo
3 rows selected. 0.01 seconds	