

Dec 9, 2022

## Task 3

1. Write a query that will display the difference between the highest and lowest salaries in each department, exclude employees with null department and whose difference <5000

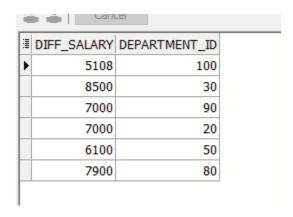
Select max(salary)-min(salary) as Diff\_salary, DEPARTMENT\_ID2

**FROM EMPLOYEES** 

where DEPARTMENT\_ID is not null

**GROUP BY DEPARTMENT\_ID** 

having max(salary)-min(salary)>5000;



2. write a query that will display the department name, job title, number of employees and the average salary for all employee in that department along this job, round the average salary to two decimal places.

SELECT d.department\_name as dname, j.job\_title as job\_title,

COUNT(\*) as emp\_count,

ROUND(AVG(salary),2) as AVGSalary

FROM employees e, departments d, jobs j

WHERE e.department\_id = d.department\_id

And e.job\_id=j.job\_id

**GROUP BY d.department\_name**, j.job\_title;

<b>■</b> DNAME	JOB_TITLE	EMP_COUNT	AVGSALARY
▶ Administration	Administration Assistant	1	4400
Shipping	Stock Manager	5	7280
Accounting	Public Accountant	1	8300
Marketing	Marketing Manager	1	13000
Finance	Finance Manager	1	12008
Marketing	Marketing Representative	1	6000
Human Resource	s Human Resources Representative	1	6500
Sales	Sales Manager	5	12200
Executive	Administration Vice President	2	17000
Shipping	Shipping Clerk	20	3215
Public Relations	Public Relations Representative	1	10000
£-100	Caloa Danatagntativo	20	0206 EE

3. Display the employee number, name and salary for all employee who earn more than the average salary.

SELECT employee\_id, first\_name||' '||last\_name as empname ,salary

FROM employees

WHERE salary > (SELECT AVG(salary)

FROM employees);

∄	EMPLOYEE_ID	EMPNAME	SALARY	
١	108	Nancy Greenberg	12008	
	109	Daniel Faviet	9000	
	111	Ismael Sciarra	7700	
	113	Luis Popp	6900	
	114	Den Raphaely	11000	
	121	Adam Fripp	8200	
	122	Payam Kaufling	7900	
	145	John Russell	14000	
	147	Alberto Errazuriz	12000	
	148	Gerald Cambrault	11000	
	150	Peter Tucker	10000	
	152	Peter Hall	9000	
	153	Christopher Olsen	8000	
	155	Oliver Tuvault	7000	
	157	Patrick Sully	9500	
H	159	Lindsev Smith	8000	4

4. Display the employee name and employee salary along with their supervisor's name and supervisor's salary. Put suitable aliases

SELECT e.FIRST\_NAME||' '||e.LAST\_NAME as emp\_name, e.salary as "Empolyee salary", s.FIRST\_NAME||' '||s.LAST\_NAME as Supervisor, s.salary as "Supervisor salary"

FROM employees e join employees s

ON (e.manager\_id = s.employee\_id);

∄	EMP_NAME	Empolyee salary	SUPERVISOR	Supervisor salary
Þ	Jose Manuel Urman	7800	Nancy Greenberg	12008
	John Chen	8200	Nancy Greenberg	12008
	Luis Popp	6900	Nancy Greenberg	12008
	Ismael Sciarra	7700	Nancy Greenberg	12008
	Daniel Faviet	9000	Nancy Greenberg	12008
	Guy Himuro	2600	Den Raphaely	11000
	Alexander Khoo	3100	Den Raphaely	11000
	Karen Colmenares	2500	Den Raphaely	11000
	Sigal Tobias	2800	Den Raphaely	11000
	Shelli Baida	2900	Den Raphaely	11000
	Julia Dellinger	3400	Adam Fripp	8200
	James Marlow	2500	Adam Fripp	8200
	Anthony Cabrio	3000	Adam Fripp	8200
	Alexis Bull	4100	Adam Fripp	8200
di	Nandita Samband		Adam Frian	9200

5. Create a query to display the employees that earn salary that is higher than the salary of all the IT\_PROG job id. Sort results on salary from highest to lowest.

Note: use Multi-row sub query.

**SELECT \* FROM employees** 

WHERE salary > ALL (SELECT salary FROM employees WHERE job\_id = 'IT\_PROG')

ORDER BY salary DESC;



6. Display the manager number and the salary of the lowest paid employee for the manager. Exclude any one whose manager is not known. Exclude any groups where the minimum salary is less than \$3000. Sort the output in descending order of salary.

SELECT manager\_id, MIN(salary) FROM employees

WHERE manager\_id IS NOT NULL

**GROUP BY manager\_id** 

HAVING MIN(salary) >= 3000

ORDER BY MIN(salary) DESC;

≣	MANAGER_ID	MIN(SALARY)
١	102	9000
	205	8300
	146	7000
	145	7000
	108	6900
	149	6200
	147	6200
	148	6100
	201	6000
	100	5800
	101	4400
	103	4200

7. Display the minimum salary in each department excluding the dept with the minimum salary.

select min(salary),DEPARTMENT\_ID from employees group by DEPARTMENT\_ID
having min(salary)>(select min(salary) from employees);

DEPARTMENT_ID	■ MIN(SALARY)
100	6900
30	2500
280	18000
	7000
90	17000
20	6000
70	10000
110	8300
80	6100
40	6500
60	4200
10	4400

```
8. Write a query to display employee_id, last_name, salary, dept id, dept name,
job Id, job title, city, street address, country id, country name, region id,
region name for all employees including those employees whose have no
department too.
SELECT e.employee_id as emp_id,e.last_name as name,e.salary
,nvl(to_char(e.DEPARTMENT_ID) ,'NO Department') as depatment_id
,d.department_name as dname,e.job_id,j.job_title as job_title,
l.CITY, l.STREET_ADDRESS, l.COUNTRY_ID, c.COUNTRY_NAME,
c.REGION_ID,r.REGION_NAME
from employees e join jobs j
on e.job_id=j.job_id
left join departments d
on e.department_id = d.department_id
left join locations l
on d.LOCATION_ID = l.LOCATION_ID
left join countries c
on l.country_id = c.country_id
left join regions r
on R.REGION_ID= C.REGION_ID;
```

MP_ID	NAME	SALARY	DEPATMENT_ID	DNAME	JOB_ID	JOB_TITLE	CITY	STREET_ADDRESS	COUNTRY_ID	COUNTRY_NAME	REGION_ID	REGION_NAME
102	De Haan	17000	90	Executive	AD_VP	Administration Vice President	Seattle	2004 Charade Rd	US	United States of America	2	Americas
100	King	24000	90	Executive	AD_PRES	President	Seattle	2004 Charade Rd	US	United States of America	2	Americas
108	Greenberg	12008	100	Finance	FI_MGR	Finance Manager	Seattle	2004 Charade Rd	US	United States of America	2	Americas
113	Рорр	6900	100	Finance	FI_ACC	Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
109	Faviet	9000	100	Finance	FI_ACC	Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
112	Urman	7800	100	Finance	FI_ACC	Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
110	Chen	8200	100	Finance	FI_ACC	Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
111	Sciarra	7700	100	Finance	FI_ACC	Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
205	Higgins	12008	110	Accounting	AC_MGR	Accounting Manager	Seattle	2004 Charade Rd	US	United States of America	2	Americas
206	Gietz	8300	110	Accounting	AC_ACC	Public Accountant	Seattle	2004 Charade Rd	US	United States of America	2	Americas
207	Momtaz	18000	280	DA dept	IT_PROG	Programmer	Seattle	2004 Charade Rd	US	United States of America	2	Americas
178	Grant	7000	NO Department		SA_REP	Sales Representative						