

Aayush Shah

Batch D1

19BCE245

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Practical 7

Do as directed.

1. Display the common jobs from department number 90 and 60.

- SQL> select job_id from employees where department_id=90 intersect select job_id from employees where department_id=60;
no rows selected

2. Display the unique jobs found in department number 90 and 60.

- SQL> (select job_id from employees where department_id=90 union select job_id from employees where department_id=60) minus (select job_id from employees where department_id=90 intersect select job_id from employees where department_id=60);
JOB_ID

FINANCE ACCOUNTANT

FINANCIAL MANAGER
IT PROG
PRESIDENT
VICE PRESIDENT

3. Display the jobs which are in dept no 90 but not in 30.

- SQL> select job_id from employees where department_id=90 minus select job_id from employees where department_id=30;
JOB_ID

PRESIDENT
VICE PRESIDENT

4. Display those employees who are working in the same dept with their manager.

- select * from employees e where e.department_id = (select e1.department_id from employees e1 where e1.employee_id = e.manager_id)

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID
SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID			
101	Neena	Kochhar	NKOCHHAR	515.123.4568	18-06-12	VICE PRESIDENT
17000	0	100	90			
102	Lex	De Haan	LDEHAAN	123.515.4569	19-06-17	VICE PRESIDENT
17000	0	100	90			
104	Bruce	Ernst	BERNST	590.423.4568	20-05-14	FINANCIAL MANAGER
6000	0	103	60			
105	David	Austin	DAUSTIN	590.423.4569	17-09-01	IT PROG
4800	0	103	60			
106	Valli	Pataballa	VPATABAL	590.423.4560	20-09-01	FINANCE ACCOUNTANT
4800	0	103	60			
119	Karen	Colmenares	KCOLMENA	515.127.4566	06-07-87	CLERK
2500		114	30			

6 rows selected.

5. Display the name of the employees who are working as a Accountant or IT and joined the company before 31-dec-2014.

- select first_name from employees where job_id='ACCOUNTANT' or job_id='IT PROG' and hire_date<TO_DATE('31-DEC-14');

FIRST_NAME

David
William

6. Display employee name, job, deptname, location for all, who are working as managers.

- SQL> select first_name, job_id, dname, location from employees e inner join department d on e.department_id=d.dept_no and employee_id in (select manager_id from employees);

FIRST_NAME JOB_ID DNAME LOCATION

Den SALES CLERK Accounting New York

Alexander IT PROG Research Dallas

Lex VICE PRESIDENT Sales Chicago

Steven PRESIDENT Sales Chicago

7. Display those employees whose manager names is 'Steven'.

- select * from employees where manager_id = (select employee_id from employees where first_name = 'Steven');

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID
SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID			
101	Neena	Kochhar	NKOCHHAR	515.123.4568	18-06-12	VICE PRESIDENT
17000	0	100	90			
102	Lex	De Haan	LDEHAAN	123.515.4569	19-06-17	VICE PRESIDENT
17000	0	100	90			
114	Den	RaphaeLy	DRAPHEAL	515.127.4561	01-09-90	SALES CLERK
11000	0	100	30			

8. Display emp number and salary of 'Steven' if his Sal is equal to highest Sal of his department.

- select e.employee_id, e.salary from employees e where e.first_name='Steven' and e.salary=(select max(e1.salary) from employees e1 where e1.department_id=e.department_id);

EMPLOYEE_ID SALARY

100 24000

9. List employees who is not working as a 'CLERK' (Sort on salary).

- select * from employees where job_id <> 'CLERK' order by salary;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	S
ALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID				
4800	106	Valli	Pataballa	VPATABAL	590.423.4560	20-09-01	FINANCE ACCOUNTANT
4800	105	David	Austin	DAUSTIN	590.423.4569	17-09-01	IT PROG
6000	104	Bruce	Ernst	BERNST	590.423.4568	20-05-14	FINANCIAL MANAGER
8300	206	William	Gietz	WGIEZT	515.123.8181	06-07-05	ACCOUNTANT
9000	103	Alexander	Hunold	AHUNOLD	590.423.4567	20-05-16	IT PROG
11000	114	Den	Raphaely	DRAPHEAL	515.127.4561	01-09-90	SALES CLERK
17000	101	Neena	Kochhar	NKOCHHAR	515.123.4568	18-06-12	VICE PRESIDENT
17000	102	Lex	De Haan	LDEHAAN	123.515.4569	19-06-17	VICE PRESIDENT
24000	100	Steven	King	SKING	515.123.4567	17-06-00	PRESIDENT

9 rows selected.

10. Display employees who are without manager.

- select * from employees where manager_id is NULL;
no rows selected

11. Display the name of those employees who are getting highest salary in the organization.

- select first_name, last_name from employees where salary=(select max(salary) from employees);

FIRST_NAME LAST_NAME

Steven King

12. Display the name of those employees who are getting second highest salary in the organization.

- select first_name, last_name from employees where salary=(select max(salary) from employees where salary<(select max(salary) from employees));

FIRST_NAME LAST_NAME

Neena Kochhar
Lex De Haan

13. Display those employees whose salary is equal to average of maximum and minimum.

- select * from employees where salary = (select (max(salary)+min(salary))/2 from employees);

no rows selected

14. Display the name of the department along with count of employees where count greater than 3.

- select dname from department where dept_no in (select department_id from employees group by department_id having count(*)>3);

DNAME

Research

15. Display dname where at least 2 employees are working.

- select dname from department where dept_no in (select department_id from employees group by department_id having count(*)>=2);

DNAME

Accounting

Research

Sales

16. Display name of those managers whose salary is more than average salary of company.

- select first_name from employees e where employee_id in (select manager_id from employees) and e.salary > (select avg(salary) from employees where manager_id = e.employee_id);

FIRST_NAME -----

Steven

Lex

Den

17. Find out the top 3 earner of company.

- select * from employees e where 3 > (select count(*) from employees where salary > e.salary) order by salary desc;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	S
ALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID				
24000	100	Steven	King	515.123.4567	17-06-00	PRESIDENT	
17000	102	Lex	De Haan	123.515.4569	19-06-17	VICE PRESIDENT	
17000	101	Neena	Kochhar	515.123.4568	18-06-12	VICE PRESIDENT	
	0						

18. Find out the last 3(least) earner of the company?

- select * from employees e where 3 > (select count(*) from employees where salary < e.salary) order by salary asc;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	S
ALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID				
2500	119	Karen	Colmenares	515.127.4566	06-07-07	CLERK	
4800	105	David	Austin	590.423.4569	17-09-01	IT PROG	
4800	106	Valli	Pataballa	590.423.4560	20-09-01	FINANCE ACCOUNTANT	
	0						

19. Display employee name, his job, his dept name, his manager name, his sal and arrange it based on salary.

- select e.first_name, e.job_id, dname, m.first_name as manager_name, e.salary from employees m, employees e inner join department on department_id = dept_no where e.manager_id = m.employee_id order by salary;

20. List the emps who are not working in sales dept.

- select * from employees inner join department on department_id = dept_no where dname <> 'Sales';

21. Find jobwise salary average

- select job_id, avg(salary) from employees group by job_id;

		JOB_ID		AVG(SALARY)	
		-----		-----	
		FINANCE ACCOUNTANT		4800	
		ACCOUNTANT		8300	
		VICE PRESIDENT		17000	
		IT PROG		6900	
		FINANCIAL MANAGER		6000	
		SALES CLERK		11000	
		CLERK		2500	
		PRESIDENT		24000	
		-----		-----	
EMPLOYEE_ID	FIRST_NAME	HIRE_DATE		JOB_ID	
				LOCATION	

103	Alexander	20-MAY-16		IT PROG	
9000					
104	Bruce	20-MAY-14		FINANCIAL MANAGER	
6000					
105	David	17-SEP-01		IT PROG	
4800					
106	Valli	20-SEP-01		FINANCE ACCOUNTANT	
4800					
114	Den	01-SEP-90		SALES CLERK	
11000					
119	Karen	06-JUL-87		CLERK	
2500					
206	William	06-JUL-05		ACCOUNTANT	
8300					

7 rows selected.

Steven PRESIDENT Sales Alexander 24000

9 rows selected.

22. Find the name of department taking maximum salary.

- select dname from employees inner join department on department_id = dept_no group by dname having sum(salary) = (select max(sum(salary)) from employees group by department_id);

DNAME

Sales

23. Find name of department taking minimum salary

- select dname from employees inner join department on department_id = dept_no group by dname having sum(salary) = (select min(sum(salary)) from employees group by department_id);

DNAME

Marketing