

Aayush Shah

Batch D1

19BCE245

9 March 2021

Practical 5

Do as directed.

1) Display the total expenditure of company on the salary of employees.

```
SQL> ed
```

```
Wrote file afiedt.buf
```

```
1 * select sum(salary) as "total expenditure" from employees
```

```
SQL> /
```

```
total expenditure
```

```
-----
```

```
104400
```

```
SQL> spool off;
```

2) List the details of the department where maximum number of emps.

```
SQL> ed
```

```
Wrote file afiedt.buf
```

```
1 * select department_id,count(employee_id) as "number_of_emp" from employees
group by department_id having count(employee_id) = (select max(count(employee_id))
from employees group by department_id)
```

```
SQL> /
```

```
DEPARTMENT_ID number_of_emp
```

```
-----
```

```
60          4
```

```
SQL> spool off;
```

3) Find department wise total salary.

```
SQL> ed
```

```
Wrote file afiedt.buf
```

```
1 * select department_id,sum(salary) as "dept_wise_salary" from employees group by
department_id
```

SQL> /

DEPARTMENT_ID dept_wise_salary

```
-----
      30      13500
      90      58000
     110       8300
      60     24600
```

SQL> spool off;

4) Find jobwise salary average.

SQL> select job_id,avg(salary) as "job_wise_salary" from employees group by job_id;

```
JOB_ID                job_wise_salary
-----
FINANCE ACCOUNTANT          4800
ACCOUNTANT                  8300
VICE PRESIDENT             17000
IT PROG                     6900
FINANCIAL MANAGER           6000
SALES CLERK                 11000
CLERK                       2500
PRESIDENT                   24000
```

8 rows selected.

SQL> spool off;

5) Find the name of department taking maximum salary.

SQL> ed

Wrote file afiedt.buf

```
1 * select department_id,sum(salary) as "max_salary_sum" from employees group by
department_id having sum(salary) = (select max(sum(salary)) from employees group
by department_id)
```

SQL> /

DEPARTMENT_ID max_salary_sum

```
-----
      90      58000
```

SQL> spool off;

6) Find name of department taking minimum salary.

SQL> ed

Wrote file afiedt.buf

```
1 * select department_id,sum(salary) as "min_salary_sum" from employees group by
department_id having sum(salary) = (select min(sum(salary)) from employees group
by department_id)
```

```
SQL>
SQL> /
```

```
DEPARTMENT_ID min_salary_sum
-----
      110      8300
```

```
SQL> spool off;
```

7) Find average salary of clerks.

```
SQL> ed
Wrote file afiedt.buf
```

```
1 * select avg(salary) from employees where job_id like '%CLERK%'
SQL>
SQL> /
```

```
AVG(SALARY)
-----
      6750
```

```
SQL> spool off;
```

8) Find average salary of managers and salesman. [Instead finding of Vice President and IT Prog as instructed by sir in lab]

```
SQL> ed
Wrote file afiedt.buf
```

```
1 * select job_id,avg(salary) from employees group by job_id having job_id='VICE
PRESIDENT' or job_id='IT PROG'
```

```
SQL> /
```

```
JOB_ID              AVG(SALARY)
-----
VICE PRESIDENT      17000
IT PROG              6900
```

```
SQL> spool off;
```

9) Find employee with maximum annual income.

```
SQL> ed
Wrote file afiedt.buf
```

```
1 * select * from employees where (salary*12) = (select max(salary*12) from
employees)
```

```
SQL> /
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	17-06-00	24000	103	90		

SQL> spool off;

10) Find the employee with minimum monthly income.

SQL> ed

Wrote file afiedt.buf

```
1 * select * from employees where (salary) = (select min(salary) from employees)
```

SQL> /

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
119	Karen	Colmenares	KCOLMENA	515.127.4566	06-07-87	2500	114	30		

SQL> spool off;

11) List the emps in the ASC order of job ids of those joined after the second half of 2014.

SQL> ed

Wrote file afiedt.buf

```
1 select * from employees where hire_date >= TO_DATE(
2 * '2014-07-01', 'YYYY-MM-DD') order by job_id ASC
```

SQL> /

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
103	Alexander	Hunold	AHUNOLD	590.423.4567	20-05-16	IT PROG	9000	60	102	

102 Lex	De Haan	LDEHAAN	123.515.4569
19-06-17 VICE PRESIDENT		17000	100 90

SQL> spool off;

12) Find the number of employees earning more than average salary of employees.

SQL> ed

Wrote file afiedt.buf

```
1 * select count(employee_id) as number_of_employees from employees where salary
>= (select avg(salary) from employees)
```

SQL> /

NUMBER_OF_EMPLOYEES

4

SQL> spool off;

13) List the emps along with their Experience whose Daily Sal is more than Rs.350.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id,first_name as name,salary as monthly_salary,salary/30 as
salary_per_day,extract(year from sysdate)-extract(year from hire_date) as
experience_in_years from employees where (salary/30)>350
```

SQL> /

EMPLOYEE_ID	NAME	MONTHLY_SALARY	SALARY_PER_DAY	EXPERIENCE_IN_YEARS
-------------	------	----------------	----------------	---------------------

100	Steven	24000	800	21
101	Neena	17000	566.666667	9
102	Lex	17000	566.666667	4
114	Den	11000	366.666667	31

SQL> spool off;

14) List the emps in asc order of seniority.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id,first_name as name,hire_date from employees order by hire_date asc
```

SQL> /

EMPLOYEE_ID	NAME	HIRE_DATE
119	Karen	06-07-87
114	Den	01-09-90
100	Steven	17-06-00
105	David	17-09-01
106	Valli	20-09-01
206	William	06-07-05
101	Neena	18-06-12
104	Bruce	20-05-14
103	Alexander	20-05-16
102	Lex	19-06-17

10 rows selected.

SQL> spool off;

15) List all the emps who joined before or after 2001.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id,first_name as name,hire_date from employees where
extract(year from hire_date) <> '2001'
```

SQL> /

EMPLOYEE_ID	NAME	HIRE_DATE
100	Steven	17-06-00
101	Neena	18-06-12
102	Lex	19-06-17
103	Alexander	20-05-16
104	Bruce	20-05-14
114	Den	01-09-90
119	Karen	06-07-87
206	William	06-07-05

8 rows selected.

SQL> spool off;

16) List the emps who joined in the year 1990.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id,first_name as name,hire_date from employees where
extract(year from hire_date) = '1990'
```

SQL> /

EMPLOYEE_ID	NAME	HIRE_DATE
114	Den	01-09-90

SQL> spool off;

17) List the emps who joined in 2005.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id,first_name as name,hire_date from employees where
extract(year from hire_date) = '2005'
```

SQL> /

EMPLOYEE_ID	NAME	HIRE_DATE
206	William	06-07-05

SQL> spool off;

18) Find the average of experience of all clerks (both ceil and floor value).

SQL> ed

Wrote file afiedt.buf

```
1 * select floor(avg(experience)) as floor_avg_exp_in_years, ceil(avg(experience)) as
ceil_avg_exp_in_years from (select extract(year from sysdate) - extract(year from
hire_date) as experience from employees where job_id like '%CLERK%')
```

SQL> /

FLOOR_AVG_EXP_IN_YEARS	CEIL_AVG_EXP_IN_YEARS
32	33

SQL> spool off;

19) List the emps who joined in January.[finding of June instead of January as requested by sir]

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id, first_name as name ,hire_date from employees where
extract(month from hire_date) = 6
```

SQL> /

EMPLOYEE_ID	NAME	HIRE_DATE
100	Steven	17-06-00
101	Neena	18-06-12
102	Lex	19-06-17

SQL> spool off;

20) List the emps who have completed 10+ years today.

SQL> ed

Wrote file afiedt.buf

```
1 * select employee_id, first_name as name ,extract(year from sysdate) - extract(year
from hire_date) as experience from employees where extract(year from sysdate) -
extract(year from hire_date) > 10
```

SQL> /

EMPLOYEE_ID	NAME	EXPERIENCE
100	Steven	21
105	David	20
106	Valli	20
114	Den	31
119	Karen	34
206	William	16

6 rows selected.

SQL> spool off;

21) List the employees who are senior to most recently hired employee working under Lex.

SQL> ed

Wrote file afiedt.buf

```
1 * select * from employees where hire_date<(select max(hire_date) from employees
where manager_id=(select employee_id from employees where first_name='Lex'))
```

SQL> /

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	24000	103	515.123.4567	17-06-00	90		
	PRESIDENT									


```

      101 Neena      Kochhar      NKOCHHAR      515.123.4568
18-06-12 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

      114 Den      Raphaely      DRAPHEAL      515.127.4561
01-09-90 SALES CLERK      11000      0      100      30

      119 Karen      Colmenares      KCOLMENA      515.127.4566
06-07-87 CLERK      2500      114      30

      206 William      Gietz      WGIETZ      515.123.8181      06-07-05
ACCOUNTANT      8300      205      110

```

8 rows selected.

SQL> spool off;

22) Display total amount of order placed by each salesman.

SQL> ed

Wrote file afiedt.buf

```

1 * select salesmanno,sum(salamt) from salesman group by salesmanno
SQL> /

```

SALESM SUM(SALAMT)

```

-----
S01      3000
S02      3000
S03      3000
S04      3500

```

SQL> spool off;

23) Identify the salesman who have placed any order of more than Rs.10000.

SQL> ed

Wrote file afiedt.buf

```

1 * select s1.salesmanno,s2.orderno,s2.productrate*s2.qtyordered as
ORDER_AMOUNT from sales_order s1 join sales_order_details s2 on s1.orderno =
s2.orderno where s2.productrate*qtyordered > 10000

```

SQL> /

SALESM ORDERN ORDER_AMOUNT

```

-----
S01  019001  10500

```

```
S01  019001  16800  
SQL> spool off;
```