

18BCB0142

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Ex.3

The table from the previous exercises is used

1.

```
SQL>
SQL> SELECT FIRST_NAME, LAST_NAME from emp where SALARY BETWEEN 30000 and 70000;
```

FIRST_NAME	LAST_NAME
Joyce	PAN
Frankin	Wong
Jenifer	Wallace
John	Smith
Ramesh	Narayan

2.

```
SQL>
SQL>
SQL> SELECT FIRST_NAME , LAST_NAME from emp where SUPERVISOR_SSN is NULL;

no rows selected

SQL> |
```

3.

```
SQL>
SQL> SELECT TO_CHAR(BIRTHDAY, 'DDTH FMMONTH YYYY') FROM emp;
```

TO_CHAR(BIRTHDAY, 'DDTHFMMONTHYYYY')
09TH JUNE 968
07TH FEBRUARY 973
08TH DECEMBER 972
20TH JUNE 987
09TH JANUARY 987
15TH SEPTEMBER 985

6 rows selected.

4.

```
SQL>
SQL>
SQL> SELECT FIRST_NAME, LAST_NAME from emp where BIRTHDAY<='31-DEC-1978';

FIRST_NAME      LAST_NAME
-----
Doug            Gilbert
Joyce           PAN
Frankin         Wong

SQL> |
```

5.

Using the existing table

```
SQL> SELECT DEPARTMENT_NAME from DEPARTMENT where DEPARTMENT_NAME LIKE 'M%';

no rows selected

SQL> |
```

6.

```
SQL>
SQL> SELECT DEPARTMENT_NAME FROM dept WHERE DEPARTMENT_NAME LIKE '%e';

DEPARTMENT_NAME
-----
Finance

SQL> |
```

7.

8.

```

SQL> SELECT UPPER(DEPARTMENT_NAME) FROM dept;

UPPER(DEPARTMENT_NAME)
-----
SALES
ADMINISTRATION
HEADQUARTERS
FINANCE
IT

SQL> SELECT LOWER(DEPARTMENT_NAME) FROM dept;

LOWER(DEPARTMENT_NAME)
-----
sales
administration
headquarters
finance
it

SQL> |

```

9.

```

SQL> SELECT SUBSTR(DEPARTMENT_NAME,0,4) FROM dept;

SUBSTR(DEPARTMENT_NAME,0,4)
-----
Sale
Admi
Head
Fina
IT

SQL>
SQL> SELECT SUBSTR(DEPARTMENT_NAME,-4,4) FROM dept;

SUBSTR(DEPARTMENT_NAME,-4,4)
-----
ales
tion
rter
ance

SQL> |

```

10.

```
SQL> SELECT SUBSTR(ADDRESS,5,12) FROM emp;

SUBSTR(ADDRESS,5,12)
-----
nai
ore
i
nai
rai
alore

6 rows selected.

SQL> |
```

11.

```
SQL>
SQL> SELECT ADD_MONTHS(MANAGER_START_DATE, 3) FROM dept;

ADD_MONTH
-----
03-APR-12
16-MAR-15
18-AUG-13
12-SEP-15

SQL> |
```

12.

```
SQL> SELECT ROUND(AGE,2) FROM emp;
SELECT ROUND(AGE,2) FROM emp
```

13.

```

SQL> SELECT LAST_DAY(MANAGER_START_DATE) FROM dept;

LAST_DAY(
-----
31-JAN-12
31-DEC-14
31-MAY-13
30-JUN-15

SQL> |

```

14.

```

SQL> SELECT SUBSTR('HARIIN',0,4) FROM DUAL;

SUBS
----
HARI

SQL> |

```

15.

```

SQL> SELECT REPLACE('HARINI','NI','SH') FROM DUAL;

REPLAC
-----
HARISH

SQL> |

```

16.

```

SQL> SELECT LENGTH(DEPARTMENT_NAME) FROM dept;

LENGTH(DEPARTMENT_NAME)
-----
5
14
11
7
2

SQL> |

```

17.

```
SQL> SELECT ADD_MONTHS(SYSDATE,10) FROM DUAL;  
  
ADD_MONTH  
-----  
31-AUG-20  
  
SQL> |
```

18.

```
SQL>  
SQL> SELECT NEXT_DAY(SYSDATE, 'FRIDAY') FROM DUAL;  
  
NEXT_DAY(  
-----  
01-NOV-19  
  
SQL> |
```

19. using the table 'project' defined from the previous exercise

```
SQL> SELECT LPAD(PROJECT_NAME,12,'*')LPD FROM project;  
  
LPD  
-----  
****Projecta  
****ProjectB  
****ProjectC  
****ProjectD  
****ProjectA  
  
SQL> |
```

EXERCISE 4:

We use the values of the previous tables

1.

```
SQL> SELECT COUNT(DISTINCT DEPARTMENT_NUMBER) FROM emp;

COUNT(DISTINCTDEPARTMENT_NUMBER)
-----
5

SQL> .....
```

2.

```
SQL> SELECT DEPARTMENT_NUMBER, MIN(SALARY), MAX(SALARY) FROM emp GROUP BY DEPARTMENT_NUMBER;

DEPARTMENT_NUMBER MIN(SALARY) MAX(SALARY)
-----
124              30000         30000
1                80000         80000
2                40000         43000
5                70000         70000
3                38000         38000

SQL> |
```

3.

```
SQL>
SQL> SELECT AVG(SALARY) from emp;

AVG(SALARY)
-----
50166.6667

SQL> |
```

4.

```
SQL> SQL> SQL> SELECT COUNT(FIRST_NAME) FROM emp WHERE AGE>30;
SELECT COUNT(FIRST_NAME) FROM emp WHERE AGE>30
```

5.

```
SQL> SELECT AVG(SALARY), DEPARTMENT_NAME FROM emp INNER JOIN dept ON emp.DEPARTMENT_NUMBER = dept.DEPARTMENT_NUMBER GROUP BY DEPARTMENT_NAME;

AVG(SALARY) DEPARTMENT_NAME
-----
80000 Headquarter
41500 Administration
38000 Finance

SQL> |
```

6.

```
SQL>
SQL> SELECT DEPARTMENT_NAME, COUNT(*) from dept,emp where dept.DEPARTMENT_NUMBER = emp.DEPARTMENT_NUMBER group by DEPARTMENT_NAME HAVING COUNT(*) > 2;

no rows selected

SQL> |
```

7.

```
SQL> SELECT AVG(SALARY) FROM emp GROUP BY DEPARTMENT_NUMBER;

AVG(SALARY)
-----
          30000
          80000
          41500
          70000
          38000

SQL> |
```

8.

```
SQL> SELECT COUNT(FIRST_NAME), DEPARTMENT_NAME FROM emp INNER JOIN dept ON emp.DEPARTMENT_NUMBER = dept.DEPARTMENT_NUMBER where DEPARTMENT_NAME = 'Finance' OR DEPARTMENT_NAME = 'Administration' GROUP BY DEPARTMENT_NAME;

COUNT(FIRST_NAME) DEPARTMENT_NAME
-----
                2 Administration
                1 Finance

SQL> |
```

9.

```
SQL> SELECT FIRST_NAME FROM emp ORDER BY BIRTHDAY;

FIRST_NAME
-----
Doug
Frankin
Joyce
Ramesh
John
Jenifer

6 rows selected.

SQL> |
```