

## EXERCISE -> 3,4

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### EXERCISE-3

#### Operators and Functions

**Aim: To understand different operators and types of function in SQL**

1. Find the employee names whose salary lies in the range between 30000 and 70000.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE  
WHERE SALARY BETWEEN 30000 AND 70000;

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE WHERE SALARY BETWEEN 30000 AND 70000;`. The results are displayed in a table with 5 rows.

FIRST_NAME	MID_NAME	LAST_NAME
Joyce	-	PAN
Franklin	T	Wong
Jennifer	S	Wallace
JOHN	B	SMITH
RAMESH	K	NARAYAN

5 rows returned in 0.00 seconds

2. Find the employees who have no supervisor.

SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE  
WHERE SUPERVISOR\_SSN IS NULL;

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the query: `SELECT FIRST_NAME,MID_NAME,LAST_NAME FROM EMPLOYEE WHERE SUPERVISOR_SSN IS NULL;`. The results are displayed in a table with 8 rows.

FIRST_NAME	MID_NAME	LAST_NAME
Doug	E	Gilbert
Joyce	-	PAN
NIKOLA	-	TESLA
ELON	-	MUSK
ALBERT	-	EINSTEIN
JEFF	-	BEZOS
STEVE	-	JOBS
WILLIAM	-	SHAWM

3. Display the bdate of all employees in the format 'DDthMonthYYYY'.

select to\_char (birthday, 'ddth "of" fmmmonth yyyy') from employee;

The screenshot shows the SQL Developer interface. The SQL Command window contains the query: `select to_char (birthday, 'ddth "of" fmmmonth yyyy') from employee;`. The Results window displays the output of this query, showing the formatted date for each employee.

TO_CHAR(BIRTHDAY,'DDTH"OF" FMMMONTHYYYY')
09th of June 1968
07th of February 1973
08th of December 1972
20th of June 1983
09th of January 1987
09th of June 1970
09th of June 1970
15th of September 1985
09th of June 1969
09th of June 1971

More than 10 rows available. Increase rows selector to view more rows.

4. Display the employee names whose bdate is on or before 1978.

SELECT FIRST\_NAME, LAST\_NAME, BIRTHDAY  
FROM EMPLOYEE  
WHERE BIRTHDAY < ('01-JAN-1978');

The screenshot shows the SQL Developer interface. The SQL Command window contains the query: `SELECT FIRST_NAME, LAST_NAME, BIRTHDAY FROM EMPLOYEE WHERE BIRTHDAY < ('01-JAN-1978');`. The Results window displays the output of this query, showing the first name, last name, and birth date for employees born before January 1, 1978.

FIRST_NAME	LAST_NAME	BIRTHDAY
Doug	Gilbert	09-JUN-68
Joyce	PAN	07-FEB-73
Franklin	Wong	08-DEC-72
NIKOLA	TESLA	09-JUN-70
ELON	MUSK	09-JUN-70
ALBERT	EINSTEIN	09-JUN-69
JEFF	BEZOS	09-JUN-71
STEVE	JOBS	09-JUN-72
BRUCE	WAYNE	09-JUN-73
TONY	STARK	09-JUN-74

10 rows returned in 0.00 seconds

5. Display the department name that starts with 'M'.

select dept\_name from dept where dept\_name like 'M%';

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127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
select dept_name from dept where dept_name like 'M%';
```

Results Explain Describe Saved SQL History

no data found

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6. Display the department names' that ends with 'E'.  
select dept\_name from dept where dept\_name like '%E';

WhatsApp | SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
select dept_name from dept where dept_name like '%E';
```

Results Explain Describe Saved SQL History

DEPT_NAME
FINANCE

1 rows returned in 0.00 seconds CSV Export

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7. Display the names of all the employees having supervisor with any of the following SSN 123, 124  
SELECT FIRST\_NAME,MID\_NAME,LAST\_NAME FROM EMPLOYEE  
WHERE SUPERVISOR\_SSN IN ('123','124');

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User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT FIRST_NAME,MID_NAME, LAST_NAME FROM EMPLOYEE
WHERE SUPERVISOR_SSN IN ('123','124');
```

Results Explain Describe Saved SQL History

FIRST_NAME	MID_NAME	LAST_NAME
Franklin	T	Wong
Jennifer	S	Wallace
JOHN	B	SMITH
RAMESH	K	NARAYAN

4 rows returned in 0.02 seconds [CSV Export](#)

Language: en-gb Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

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8. Display all the department names in upper case and lower case.  
select lower(DEPT\_NAME) from DEPT;

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**ORACLE® Database Express Edition**

User: SYSTEM

Home > SQL > SQL Commands

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```
select lower(DEPT_NAME) from DEPT;
```

Results Explain Describe Saved SQL History

LOWER(DEPT_NAME)
administration
headquarter
finance
it
unspecified

5 rows returned in 0.00 seconds [CSV Export](#)

Application Express 2.1.0.0.39

Type here to search 26°C 10:41 19-10-2021

select UPPER(DEPT\_NAME) from DEPT;

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**ORACLE® Database Express Edition**

User: SYSTEM

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```
select UPPER(DEPT_NAME) from DEPT;
```

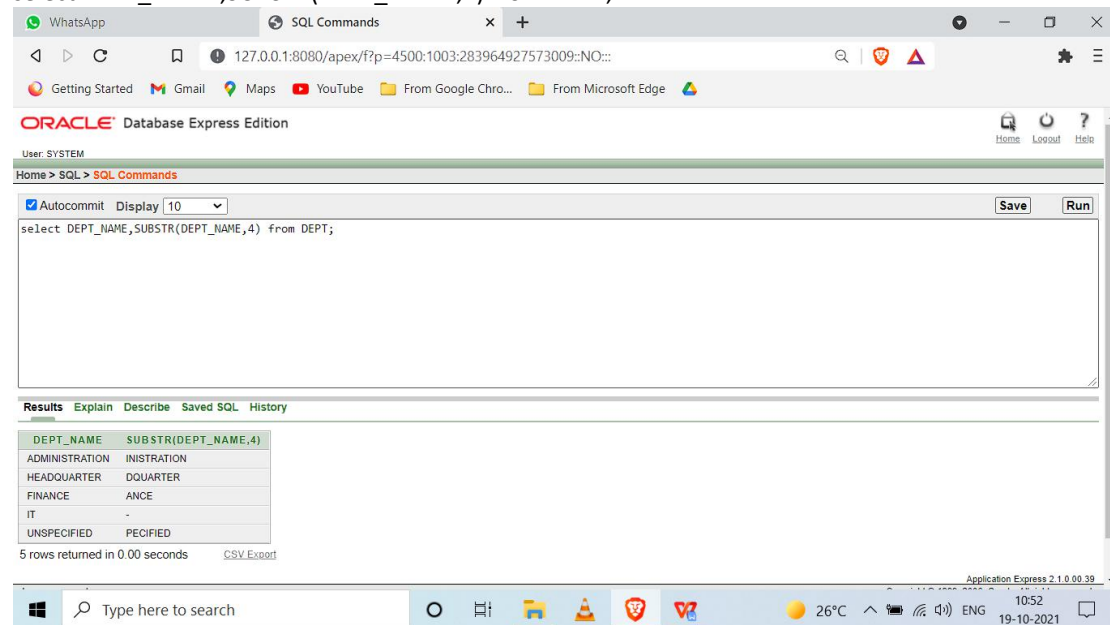
Results Explain Describe Saved SQL History

UPPER(DEPT_NAME)
ADMINISTRATION
HEADQUARTER
FINANCE
IT
UNSPECIFIED

5 rows returned in 0.00 seconds [CSV Export](#)

9. Display the first four characters and last four of the department names using substring function

select DEPT\_NAME,SUBSTR(DEPT\_NAME,4) from DEPT;

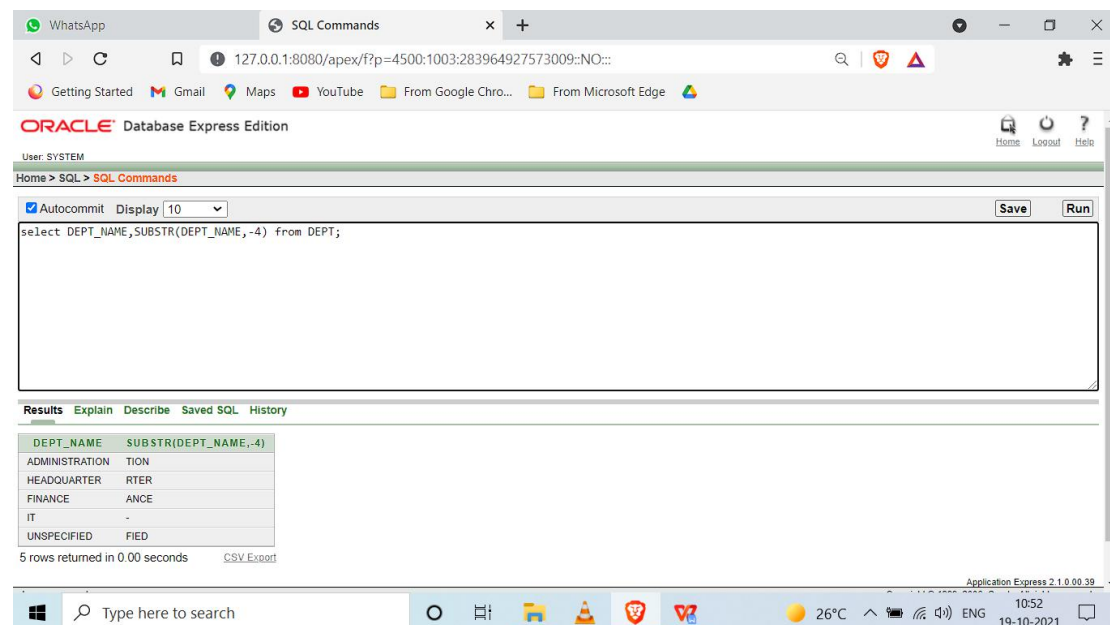


The screenshot shows the Oracle Database Express Edition interface. The SQL command entered is `select DEPT_NAME,SUBSTR(DEPT_NAME,4) from DEPT;`. The results are displayed in a table with two columns: `DEPT_NAME` and `SUBSTR(DEPT_NAME,4)`. The results are as follows:

DEPT_NAME	SUBSTR(DEPT_NAME,4)
ADMINISTRATION	INATION
HEADQUARTER	QUARTER
FINANCE	ANCE
IT	-
UNSPECIFIED	PECIFIED

5 rows returned in 0.00 seconds

select DEPT\_NAME,SUBSTR(DEPT\_NAME,-4) from DEPT;



The screenshot shows the Oracle Database Express Edition interface. The SQL command entered is `select DEPT_NAME,SUBSTR(DEPT_NAME,-4) from DEPT;`. The results are displayed in a table with two columns: `DEPT_NAME` and `SUBSTR(DEPT_NAME,-4)`. The results are as follows:

DEPT_NAME	SUBSTR(DEPT_NAME,-4)
ADMINISTRATION	TION
HEADQUARTER	RTER
FINANCE	ANCE
IT	-
UNSPECIFIED	FIED

5 rows returned in 0.00 seconds

10. Display the substring of the Address (starting from 5th position to 11 th position) of all employees

select ADDRESS,SUBSTR(ADDRESS,5,11) from EMPLOYEE;

The screenshot shows the SQL Commands window in Oracle Application Express. The query entered is: `select ADDRESS, SUBSTR(ADDRESS,5,11) from EMPLOYEE;`. The results are displayed in a table with two columns: ADDRESS and SUBSTR(ADDRESS,5,11).

ADDRESS	SUBSTR(ADDRESS,5,11)
CHENNAI	NAI
VELLORE	ORE
DELHI	I
CHENNAI	NAI
MADURAI	RAI
CHENNAI	NAI
CHENNAI	NAI
BANGALORE	ALORE

11. Display the Mgrstartdate on adding three months to it.

`SELECT MANAGESTARTDATE,ADD_MONTHS(MANAGESTARTDATE,3) FROM DEPT;`

The screenshot shows the SQL Commands window in Oracle Application Express. The query entered is: `SELECT MANAGESTARTDATE,ADD_MONTHS(MANAGESTARTDATE,3) FROM DEPT;`. The results are displayed in a table with two columns: MANAGESTARTDATE and ADD\_MONTHS(MANAGESTARTDATE,3).

MANAGESTARTDATE	ADD_MONTHS(MANAGESTARTDATE,3)
03-JAN-12	03-APR-12
16-DEC-14	16-MAR-15
18-MAY-13	18-AUG-13
12-JUN-15	12-SEP-15
01-OCT-88	01-JAN-89

5 rows returned in 0.00 seconds

12. Display the age of all the employees rounded to two digits.

`select FIRST_NAME, LAST_NAME, ROUND((months_between(sysdate, BIRTHDAY))/12) from employee;`

The screenshot shows a web browser window with the URL `127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::`. The SQL Commands window contains the following query:

```
select FIRST_NAME, LAST_NAME, ROUND((months_between(sysdate, BIRTHDAY))/12) from employee;
```

The Results tab shows the following data:

FIRST_NAME	LAST_NAME	ROUND((MONTHS_BETWEEN(SYSDATE, BIRTHDAY))/12)
Doug	Gilbert	53
Joyce	PAN	49
Franklin	Wong	49
Jennifer	Wallace	38
JOHN	SMITH	35
NIKOLA	TESLA	51
ELON	MUSK	51
RAMESH	NARAYAN	36
ALBERT	EINSTEIN	52
JEFF	BEZOS	50

10 rows returned in 0.00 seconds. CSV Export

13. Find the last day and next day of the month in which each manager has joined.

select LAST\_DAY(MANAGESTARTDATE) from DEPT;

The screenshot shows the same web browser window. The SQL Commands window contains the following query:

```
select LAST_DAY(MANAGESTARTDATE) from DEPT;
```

The Results tab shows the following data:

LAST_DAY(MANAGESTARTDATE)
31-JAN-12
31-DEC-14
31-MAY-13
30-JUN-15
31-OCT-88

5 rows returned in 0.00 seconds. CSV Export

select NEXT\_DAY(MANAGESTARTDATE, 'SUNDAY') from DEPT;



WhatsApp SQL Commands Oracle NEXT\_DAY Function By Practice

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```
select NEXT_DAY(MANAGESTARTDATE,'SUNDAY') from DEPT
```

Results Explain Describe Saved SQL History

NEXT_DAY(MANAGESTARTDATE,'SUNDAY')
08-JAN-12
21-DEC-14
19-MAY-13
14-JUN-15
02-OCT-88

5 rows returned in 0.00 seconds CSV Export

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14. Print a substring from the string 'Harini'.

```
SELECT SUBSTR('HARINI',3,4) "Substring"  
FROM DUAL;
```

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User: SYSTEM Home Logout Help

Home > SQL > SQL Commands

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```
SELECT SUBSTR('HARINI',3,4) "Substring"  
FROM DUAL;
```

Results Explain Describe Saved SQL History

Substring
RINI

1 rows returned in 0.00 seconds CSV Export

Language: en-gb Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

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15. Replace the string 'ni' from 'Harini' by 'sh'

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



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Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

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

Results Explain Describe Saved SQL History

REPLACE('HARINI','NI','SH')
HARISH

1 rows returned in 0.00 seconds CSV Export

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Language: en-gb

Type here to search 27°C 11:42 19-10-2021

16. Print the length of all the department names.

SELECT DEPT\_NAME,LENGTH(DEPT\_NAME) FROM DEPT;

WhatsApp SQL Commands x +

127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::

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User: SYSTEM Home Logout Help

Home > SQL > SQL Commands

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SELECT DEPT\_NAME,LENGTH(DEPT\_NAME) FROM DEPT;

Results Explain Describe Saved SQL History

DEPT_NAME	LENGTH(DEPT_NAME)
ADMINISTRATION	14
HEADQUARTER	11
FINANCE	7
IT	2
UNSPECIFIED	11

5 rows returned in 0.00 seconds CSV Export

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Language: en-gb

Type here to search 27°C 11:44 19-10-2021

17. Display the date after 10 months from current date.

SELECT ADD\_MONTHS(SYSDATE,10) FROM DUAL;

The screenshot shows a web browser window with the 'SQL Commands' tab active. The address bar shows the URL '127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::'. The page header indicates the user is 'SYSTEM'. Below the header, there's a 'SQL Commands' section with a 'Save' button and a 'Run' button. The SQL command entered is 'SELECT ADD\_MONTHS(SYSDATE,10) FROM DUAL;'. The results section shows a single row with the value '19-AUG-22'. The footer of the application indicates 'Application Express 2.1.0.0.39' and 'Copyright © 1999, 2006, Oracle. All rights reserved.'.

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

SELECT ADD\_MONTHS(SYSDATE,10) FROM DUAL;

Results Explain Describe Saved SQL History

ADD\_MONTHS(SYSDATE,10)

19-AUG-22

1 rows returned in 0.00 seconds CSV Export

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18. Display the next occurrence of Friday in this month.  
SELECT NEXT\_DAY(SYSDATE,'FRIDAY') FROM DUAL;

The screenshot shows the same 'SQL Commands' interface. The SQL command entered is 'SELECT NEXT\_DAY(SYSDATE,'FRIDAY') FROM DUAL;'. The results section shows a single row with the value '22-OCT-21'. The footer of the application indicates 'Application Express 2.1.0.0.39' and 'Copyright © 1999, 2006, Oracle. All rights reserved.'.

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

SELECT NEXT\_DAY(SYSDATE,'FRIDAY') FROM DUAL;

Results Explain Describe Saved SQL History

NEXT\_DAY(SYSDATE,'FRIDAY')

22-OCT-21

1 rows returned in 0.00 seconds CSV Export

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19. Display the project location padded with \*\*\*\* on left side.  
select lpad(PROJECTLOCATION,15,'\*') lpd from PROJECT;

The screenshot shows a web browser window with the URL `127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::`. The page title is "SQL Commands". The interface includes a "Save" button and a "Run" button. The SQL command entered is:

```
select lpad(PROJECTLOCATION,15,'') lpd from PROJECT;
```

The results are displayed in a table with the following data:

LPD
*****DELHI
*****HYDERABAD
*****CHENNAI
*****CHENNAI
*****HYDERABAD
*****HYDERABAD
*****BANGALORE
*****HYDERABAD
*****HYDERABAD
*****HYDERABAD

10 rows returned in 0.01 seconds. A "CSV Export" link is available.

## Exercise: IV

### Group Functions

- 1) How many different departments are there in the 'employee' table

SELECT COUNT(\*) FROM DEPT;

The screenshot shows the same web browser window. The SQL command entered is:

```
SELECT COUNT(*) FROM DEPT;
```

The results are displayed in a table with the following data:

COUNT(*)
5

1 rows returned in 0.02 seconds. A "CSV Export" link is available.

- 2) For each department display the minimum and maximum employee salaries  
SELECT MIN(SALARY) FROM EMPLOYEE;

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User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT MIN(SALARY) FROM EMPLOYEE;
```

Results Explain Describe Saved SQL History

MIN(SALARY)
10000

1 rows returned in 0.00 seconds [CSV Export](#)

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SELECT MAX(SALARY) FROM EMPLOYEE;

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User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT MAX(SALARY) FROM EMPLOYEE;
```

Results Explain Describe Saved SQL History

MAX(SALARY)
90000

1 rows returned in 0.00 seconds [CSV Export](#)

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Windows taskbar: Type here to search, 26°C, 11:58 19-10-2021

3) Print the average annual salary.

SELECT ROUND(AVG(SALARY)) FROM EMPLOYEE;

The screenshot shows the Oracle SQL Commands interface. The query entered is: `SELECT ROUND(AVG(SALARY)) FROM EMPLOYEE;`. The results show a single row with the value 60786. The interface includes a top navigation bar with 'WhatsApp' and 'SQL Commands' tabs, a search bar, and a bottom status bar with system information.

SQL Commands

127.0.0.1:8080/apex/f?p=4500:1003:283964927573009::NO::

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

SELECT ROUND(AVG(SALARY)) FROM EMPLOYEE;

Results Explain Describe Saved SQL History

ROUND(AVG(SALARY))

60786

1 rows returned in 0.00 seconds CSV Export

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Language: en-gb

Type here to search

26°C 11:59 19-10-2021

#### 4) Count the number of employees over 30 age

select count(ssn\_number) from employee where (abs(extract(year from sysdate)-(extract(year from birthday)))>30);

The screenshot shows the Oracle SQL Commands interface. The query entered is: `select count(ssn_number) from employee where (abs(extract(year from sysdate)-(extract(year from birthday)))>30);`. The results show a single row with the value 14. The interface includes a top navigation bar with 'WhatsApp' and 'SQL Commands' tabs, a search bar, and a bottom status bar with system information.

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User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

select count(ssn\_number) from employee where (abs(extract(year from sysdate)-(extract(year from birthday)))>30);

Results Explain Describe Saved SQL History

COUNT(SSN\_NUMBER)

14

1 rows returned in 0.02 seconds CSV Export

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Language: en-gb

Type here to search

22°C 09:07 20-10-2021

#### 5) Print the Department name and average salary of each department

select dept\_number, avg(salary) from employee group by dept\_number;

Oracle Database Express Edition SQL Commands window. The query entered is: `select dept_number, avg(salary) from employee group by dept_number;`. The results show 4 rows:

DEPT_NUMBER	AVG(SALARY)
1	60000
2	41500
4	68750
3	38000

4 rows returned in 0.01 seconds. CSV Export

6) Display the department name which contains more than 2 employees.

```
select dept_name
from dept,employee
where dept.dept_no=employee.dept_number
group by(dept_name)
having count(ssn_number)>2;
```

Oracle Database Express Edition SQL Commands window. The query entered is: `select dept_name from dept,employee where dept.dept_no=employee.dept_number group by(dept_name) having count(ssn_number)>2;`. The results show 2 rows:

DEPT_NAME
HEADQUARTER
IT

2 rows returned in 0.00 seconds. CSV Export

7) Calculate the average salary of employees by department and age  
 select distinct dept\_number,months\_between(sysdate,birthday)/12,avg(salary) from employee group by dept\_number,months\_between(sysdate,birthday)/12;





select count(ssn\_number) from employee where dept\_number = (select dept\_no from dept where dept\_name='ADMINISTRATION');

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following query:

```
select count(ssn_number) from employee where dept_number = (select dept_no from dept where dept_name='ADMINISTRATION');
```

The query has been executed, and the results are displayed in the Results tab. The result is a single row with the value 2.

COUNT(SSN_NUMBER)
2

1 rows returned in 0.00 seconds

9) List out the employees based on their seniority.

select first\_name,last\_name,months\_between(sysdate,birthday)/12 from employee order by months\_between(sysdate,birthday)/12 desc;

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following query:

```
select first_name,last_name,months_between(sysdate,birthday)/12 from employee order by months_between(sysdate,birthday)/12 desc;
```

The query has been executed, and the results are displayed in the Results tab. The results are ordered by seniority (months between sysdate and birthday) in descending order.

FIRST_NAME	LAST_NAME	MONTHS_BETWEEN(SYSDATE,BIRTHDAY)/12
CAPTAIN STEVE	ROGERS	119.363979770260852250099561927518916766
Doug	Gilbert	53.3639797702608522500995619275189167663
ALBERT	EINSTEIN	52.3639797702608522500995619275189167663
ELON	MUSK	51.3639797702608522500995619275189167663
NIKOLA	TESLA	51.3639797702608522500995619275189167663
JEFF	BEZOS	50.3639797702608522500995619275189167663
STEVE	JOBS	49.3639797702608522500995619275189167663
Franklin	Wong	48.866679423038630027877339705296694544
joyce	PAN	48.7026894476802070888092393468737554759
BRUCE	WAYNE	48.3639797702608522500995619275189167663

More than 10 rows available. Increase rows selector to view more rows.