



```
SELECT TRIM (' My Name is Adam ') trimmed text from dual;
SELECT TRIM (' ' FROM ' My Name is Adam ') trimmed text from dual;
SELECT TRIM (BOTH ' ' FROM '
                               My Name is Adam ') trimmed text from dual;
SELECT TRIM (LEADING ' ' FROM ' My Name is Adam ') trimmed text from dual;
      TRIM (TRAILING ' ' FROM ' My Name is Adam ') trimmed text from dual;
      TRIM (TRAILING 'm' FROM ' my Name is Adam ') trimmed text from dual;
SELECT TRIM (TRAILING 'm' FROM 'my Name is Adam') trimmed text from dual;
SELECT TRIM (TRAILING 'm' FROM 'my Name is Adammmmm') trimmed text from dual;
SELECT TRIM (LEADING 'm' FROM 'my Name is Adam') trimmed text from dual;
SELECT TRIM (BOTH 'm' FROM 'my Name is Adam') trimmed text from dual;
SELECT TRIM ('m' FROM 'my Name is Adam') trimmed text from dual;
SELECT TRIM ('m' FROM 'my Name is Ada') trimmed text from dual;
SELECT TRIM (TRAILING 'm' FROM 'my Name is Ada') trimmed text from dual;
SELECT TRIM (TRAILING 'my' FROM 'my Name is Ada') trimmed_text from dual;
                                                            Character+Functions+-+Part+3+(TRIM,+LTRIM,+RTRIM+Functions)(Code+Samples).sql
SELECT RTRIM (' my Name is Adam ') r trimmed text from dual;
SELECT LTRIM (' my Name is Adam ') 1 trimmed text from dual;
SELECT LTRIM ('my Name is Adam', 'my') 1 trimmed text from dual;
SELECT RTRIM ('my Name is Adam', 'my') r_trimmed_text from dual;
SELECT RTRIM ('my Name is Adammmm', 'my') r trimmed text from dual;
SELECT LTRIM ('www.yourwebsite.com', 'w.') 1 trimmed text from dual;
SELECT RTRIM(LTRIM('www.yourwebsitename.com', 'w.'), '.com') trimmed text from dual;
SELECT ltrim('1237982434www.yourwebsitename.com', '0123456789') trimmed text from dual;
```



REPLACE LPAD RPAD Functions

```
SELECT first_name, REPLACE(first_name, 'a') rpl FROM employees;
SELECT first_name, REPLACE(first_name, 'a', '-') rpl FROM employees;
SELECT first_name, REPLACE(first_name, 'le', '-') rpl FROM employees;
SELECT first_name, REPLACE(first_name, 'und', '-') rpl FROM employees;
SELECT first_name, lpad(first_name, 10, '*') pad FROM employees;
SELECT first_name, rpad(first_name, 10, '*') pad FROM employees;
SELECT first_name, rpad(first_name, 6, '*') pad FROM employees;
SELECT first_name, lpad(first_name, 6, '*') pad FROM employees;
SELECT first_name, lpad('My name is ',20,'-') pad FROM employees;
SELECT first_name, lpad('My name is ',20,'-') pad FROM employees;
```

Character+Functions+-+Part+4+(REPLACE,+LPAD,+RPAD+Functions)(Code+Samples).sql

TO_CHAR



```
SELECT first name, hire date FROM employees;
SELECT first_name, hire_date, to_char(hire_date,'YYYYY') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'YY') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'RR') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'YEAR') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'MM') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'MM-YYYY') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'MON-YYYY') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'MON-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'mon-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'Mon-yyyy') "Formatted Date" FROM employees;
SELECT first_name, hire_date, to char(hire_date, 'MONTH-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'Month-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'DD-Month-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'DY-Month-yyyy') "Formatted Date" FROM employees;
SELECT first_name, hire_date, to_char(hire_date,'Dy-Month-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'Day-Month-yyyy') "Formatted Date" FROM employees;
SELECT first name, hire date, to char(hire date, 'Dy-Month-yyyy HH12') "Formatted Date" FROM employees;
SELECT first_name, hire_date, to_char(hire_date, 'Dy-Month-yyyy HH24') "Formatted Date" FROM employees;
```

Oracle Conditional+Expressions CASE Expressions

```
SELECT first_name, last_name, job_id, salary, CASE job_id
                                   WHEN 'ST CLERK' THEN salary * 1.2
                             WHEN 'SA REP' THEN salary * 1.3
                             WHEN 'IT PROG' THEN salary * 1.4
                                END "UPDATED SALARY"
  FROM employees;
  SELECT first name, last name, job id, salary,
      CASE job_id
         WHEN 'ST_CLERK' THEN salary * 1.2
         WHEN 'SA REP'
                         THEN salary * 1.3
         WHEN 'IT_PROG' THEN salary * 1.4
         ELSE salary
      END "UPDATED SALARY"
                                                Oracle+Conditional+Expressions-+CASE+Expressions+(Code+Samples).sql
  FROM employees;
  SELECT first_name, last_name, job_id, salary,
         WHEN job id = 'ST CLERK' THEN salary*1.2
         WHEN job id = 'SA REP' THEN salary*1.3
         WHEN job id = 'IT PROG' THEN salary*1.4
         ELSE salary
      END "UPDATED SALARY"
  FROM employees;
  SELECT first_name, last_name, job_id, salary,
               WHEN job id = 'ST CLERK' THEN salary*1.2
              WHEN job id = 'SA REP' THEN salary*1.3
              WHEN job id = 'IT PROG' THEN salary*1.4
              WHEN last_name = 'King' THEN 2*salary
              ELSE salary END "UPDATED SALARY"
  FROM employees;
  SELECT first_name, last_name, job_id, salary,
      CASE
         WHEN job_id = 'AD_PRES' THEN salary*1.2
         WHEN job id = 'SA REP'
                                  THEN salary*1.3
         WHEN job id = 'IT PROG' THEN salary*1.4
         WHEN last name = 'King' THEN 2*salary
         ELSE salary
      END "UPDATED SALARY"
  FROM employees;
  SELECT first name, last name, job id, salary
  FROM employees
- WHERE (CASE
            WHEN job id = 'IT PROG' AND salary > 5000 THEN 1
            WHEN job id = 'SA MAN' AND salary > 10000 THEN 1
            ELSE 0
         END) = 1;
```



Oracle Conditional Expressions DECODE Function



```
SELECT DECODE (1, 1, 'One', 2, 'Two') result FROM dual;
SELECT DECODE (25, 1, 'One', 2, 'Two', 3, 'Three', 'Not Found') result FROM dual;
SELECT first name, last name, job id, salary,
       DECODE (job_id, 'ST_CLERK', salary*1.20,
                       'SA REP' ,salary*1.30,
                       'IT PROG' ,salary*1.50 ) as updated salary
FROM EMPLOYEES;
SELECT first name, last name, job id, salary,
       DECODE (job id, 'ST CLERK', salary*1.20,
                       'SA REP' , salary*1.30,
                       'IT PROG' , salary*1.50,
                        salary) as updated salary
                                                             Oracle+Conditional+Expressions+-+DECODE+Function+(Code+Samples).sql
FROM EMPLOYEES;
```



AVG Function

```
SELECT avg(salary), avg(all salary), avg(distinct salary) FROM employees;
SELECT avg(salary), avg(all salary), avg(distinct salary)
FROM employees WHERE job id = 'IT PROG';
SELECT avg(salary), avg(all salary), avg(distinct salary), salary
FROM employees WHERE job id = 'IT PROG';
SELECT avg(commission pct) FROM employees;
                                                                AVG+Function+(Code+Samples).sql
SELECT avg(commission pct), avg(nvl(commission pct,0)) FROM employees;
```



COUNT Function



MAX Function

```
SELECT max(salary), max(hire_date), max(first_name) FROM employees;

SELECT * FROM employees ORDER BY first_name;
```

MAX+Function+(Code+Samples).sql



MIN Function



SUM Function

```
SELECT sum(salary), sum(ALL salary), sum(DISTINCT salary), sum(hire_date) FROM employees;
SELECT sum(salary), sum(ALL salary), sum(DISTINCT salary) FROM employees;
```



GROUP BY Clause

```
SELECT avg(salary) FROM employees;
SELECT avg(salary) FROM employees WHERE job id = 'IT PROG';
SELECT avg(salary) FROM employees WHERE job_id = 'IT_PROG' or job_id = 'SA_REP';
SELECT job id, avg(salary) FROM employees
GROUP BY job id;
SELECT job id, avg(salary) FROM employees
GROUP BY job id
                                                            GROUP+BY+Clause+(Part+1)+(Code+Samples) sql
ORDER BY avg(salary);
SELECT job id, avg(salary) FROM employees
GROUP BY job id
ORDER BY avg(salary) DESC;
SELECT job id, department id, avg(salary) FROM employees
GROUP BY job id, department id;
SELECT job id, department id, avg(salary), count(*) FROM employees
GROUP BY job id, department id
ORDER BY count (*) DESC;
SELECT job id, department id, manager id, avg(salary), count(*) FROM employees
GROUP BY job_id, department_id, manager_id
ORDER BY count(*) DESC;
SELECT job id, department id, avg(salary), count(*) FROM employees
GROUP BY department id, job id, manager id;
```



GROUP BY Clause



```
SELECT job id, department id, avg(salary) FROM employees
GROUP BY job id;
SELECT job id, department id, avg(salary) FROM employees
GROUP BY job id, department id;
SELECT job id, avg(salary) FROM employees
GROUP BY job id;
SELECT avg(salary) FROM employees
GROUP BY job id;
                                                   GROUP+BY+Clause+(Part+2)+(Code+Samples).sql
SELECT job id, avg(salary) FROM employees
GROUP BY job id, department id;
SELECT job id, sum(salary), max(hire date), count(*) FROM employees
GROUP BY job id, department id;
SELECT job id, sum(salary), max(hire date), count(*) FROM employees
GROUP BY job id;
SELECT job id, sum(salary), max(hire date), count(*) FROM employees
WHERE job id IN ('IT PROG', 'ST MAN', 'AC ACCOUNT')
GROUP BY job id;
```

HAVING Clause



```
SELECT job_id, avg(salary) FROM employees
GROUP BY job id;
SELECT job_id, avg(salary) FROM employees
WHERE avg(salary) > 10000
GROUP BY job id;
SELECT job_id, avg(salary) FROM employees
GROUP BY job id
HAVING avg(salary) > 10000;
SELECT job id, avg(salary) FROM employees
HAVING avg(salary) > 10000
GROUP BY job id;
SELECT job id, avg(salary) FROM employees
WHERE hire date > '28-MAY-05'
GROUP BY job id
HAVING avg(salary) > 10000;
SELECT job id, avg(salary) FROM employees
WHERE manager id = 101
GROUP BY job id
HAVING avg(salary) > 10000;
SELECT job id, avg(salary) FROM employees
WHERE salary > 5000
GROUP BY job id
--HAVING avg(salary) > 10000;
SELECT job id, avg(salary) FROM employees
--WHERE salary > 10000
                                                    HAVING+Clause+(Code+Samples).sql
GROUP BY job id
HAVING avg(salary) > 5000;
```