

The **DBMS_OUTPUT** is a built-in package that enables you to display output, display debugging information, and send messages from PL/SQL blocks, subprograms, packages, and triggers. We have already used this package all throughout our tutorial.

Let us look at a small code snippet that would display all the user tables in the database. Try it in your database to list down all the table names:

```
BEGIN
  dbms_output.put_line (user || ' Tables in the database:');
  FOR t IN (SELECT table_name FROM user_tables)
  LOOP
    dbms_output.put_line(t.table_name);
  END LOOP;
END;
```

DBMS_OUTPUT Subprograms

The DBMS_OUTPUT package has the following subprograms:

S.N	Subprogram & Purpose
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|---|--|
| 1 | DBMS_OUTPUT.DISABLE;
Disables message output |
| 2 | DBMS_OUTPUT.ENABLE <i>buffer_size</i> IN INTEGER DEFAULT 20000;
Enables message output. A NULL value of <i>buffer_size</i> represents unlimited buffer size. |
| 3 | DBMS_OUTPUT.GET_LINE <i>line</i> OUT VARCHAR2, <i>status</i> OUT INTEGER;
Retrieves a single line of buffered information. |
| 4 | DBMS_OUTPUT.GET_LINES <i>lines</i> OUT CHARARR, <i>numlines</i> IN OUTINTEGER;
Retrieves an array of lines from the buffer. |
| 5 | DBMS_OUTPUT.NEW_LINE;
Puts an end-of-line marker |
| 6 | DBMS_OUTPUT.PUT <i>item</i> IN VARCHAR2;
Places a partial line in the buffer. |
| 7 | DBMS_OUTPUT.PUT_LINE <i>item</i> IN VARCHAR2;
Places a line in the buffer. |

Example:

```

DECLARE
    lines dbms_output.chararr;
    num_lines number;
BEGIN
    -- enable the buffer with default size 20000
    dbms_output.enable;

    dbms_output.put_line('Hello Reader!');
    dbms_output.put_line('Hope you have enjoyed the tutorials!');
    dbms_output.put_line('Have a great time exploring pl/sql!');

    num_lines := 3;

    dbms_output.get_lines(lines, num_lines);

    FOR i IN 1..num_lines LOOP
        dbms_output.put_line(lines(i));
    END LOOP;
END;
/

```

When the above code is executed at SQL prompt, it produces the following result:

```

Hello Reader!
Hope you have enjoyed the tutorials!
Have a great time exploring pl/sql!

```

PL/SQL procedure successfully completed.

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