



PL/SQL Cheat Sheet

A cheat sheet for common Oracle PL/SQL commands..

Basic PL/SQL Block

```
DECLARE
    -- Variable declarations
BEGIN
    -- Executable statements
EXCEPTION
    -- Error handling
END;
```

Variables

```
v_name VARCHAR2(50);
v_total NUMBER := 0;
v_today DATE := SYSDATE;
```

If and Else

```
IF v_total > 100 THEN
    DBMS_OUTPUT.PUT_LINE('Over 100');
ELSIF v_total = 100 THEN
    DBMS_OUTPUT.PUT_LINE('At 100');
ELSE
    DBMS_OUTPUT.PUT_LINE('Under 100');
END IF;
```

While

```
WHILE v_total < 100 LOOP
    v_total := v_total + 10;
END LOOP;
```

Loop

```
FOR i IN 1..5 LOOP
    DBMS_OUTPUT.PUT_LINE('Iteration: ' || i);
END LOOP;
```

Procedure

```
CREATE OR REPLACE PROCEDURE helloWorld (
    p_name IN VARCHAR2
) IS
BEGIN
    DBMS_OUTPUT.PUT_LINE('Hello, ' || p_name);
END;
```

Function

```
CREATE OR REPLACE FUNCTION get_discount (
    p_amount IN NUMBER
) RETURN NUMBER IS
BEGIN
    RETURN p_amount * 0.1;
END;
```

Exception Handling

```
BEGIN
  -- Code that might error
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE('No rows found');
  WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE('An error occurred: ' || SQLERRM);
END;
```

Cursor

```
DECLARE
  CURSOR c_customers IS SELECT first_name FROM customers;
  v_name customers.first_name%TYPE;
BEGIN
  OPEN c_customers;
  LOOP
    FETCH c_customers INTO v_name;
    EXIT WHEN c_customers%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE(v_name);
  END LOOP;
  CLOSE c_customers;
END;
```

Useful Packages

Package	Use
DBMS_OUTPUT	Write to the console
DBMS_UTILITY	General utility functions
UTL_FILE	Read and write files
DBMS_SCHEDULER	Schedule jobs