













PL/SQL Tutorial

By (Procedural - Structured Query Language)

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Course Content

What is PL/ SQL ?

Stored Procedure

Functions

Cursors

Triggers

Demonstration and Project Design Implementation

PL/SQL Interview Tips













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What do we learn in this Chapter?

What is PL/SQL?

Why do we need PL/SQL?

PL/SQL Block

PL/SQL Execution Environment









What is PL/SQL?

PL/SQL is a block-structured language that enables developers to combine the power of SQL with procedural statements.









Why do we need PL/SQL?

- 1. Procedural capabilities
- 2. Fast data processing for Multi-user environment
- 3. Developmental tool supports data manipulation and facilities of conditional checking, branching and looping
- 4. Improves transaction performance
- 5. Portable .. Many more







PL/SQL Block

DECLARE

Declarations of memory variables, constants, cursors etc.

BEGIN

SQL executable statements

PL/SQL executable statements



EXCEPTION

SQL or PL/SQL code to handle errors that may arise during execution of the code

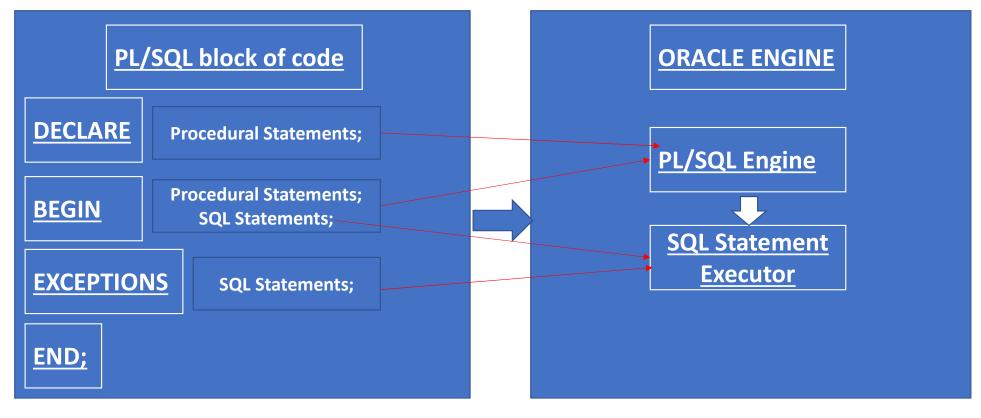


END;





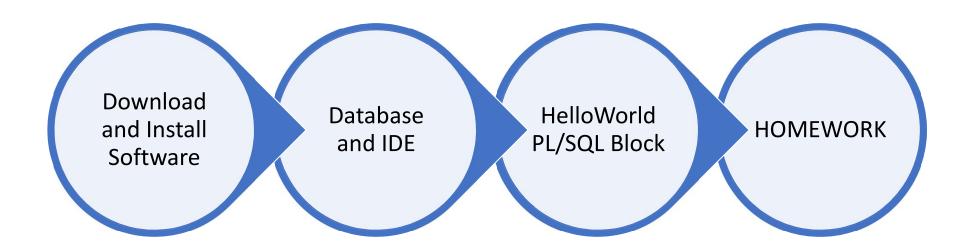
PL/SQL Block







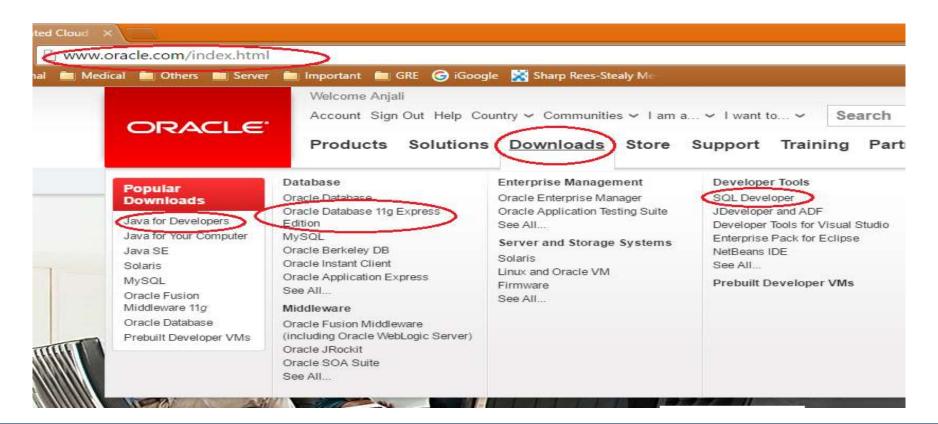
PL/SQL EXECUTION ENVIRONMENT







Software Download and Installation







HelloWorld PL/SQL Program

```
SQL> set serveroutput on;
SQL> DECLARE

2 h varchar2(20);
3 BEGIN
4 h := 'HELLO WORLD';
5 dbms_output.put_line('Hi! '||h);
6 end;
7 /
Hi! HELLO WORLD

PL/SQL procedure successfully completed.

SQL>
```





Practice Project

```
declare
a number(4,2);
b number(4,2);
c number(4,2);
begin
a:=2;
b:=4;
c:=a+b;
DBMS_OUTPUT_PUT_LINE('Addition of a and b is ' || c);
end;
/
```





Instructions

1. Calculate Average of 5 inputs and practice making basic calculator using variables and display Thank you to exit.

For more resource, assistance and questions, please contact techranch2019@gmail.com

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Conclusion

PL/SQL

Stored Procedure

Functions

Trigger

Cursors

Demonstration

Interview Tips



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