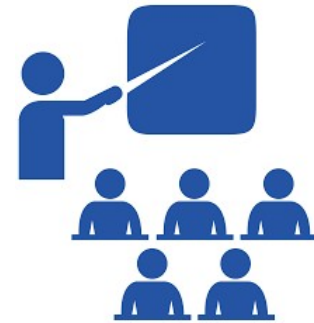




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# PL/SQL Tutorial

By *(Procedural - Structured Query Language)*

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Certified Professional

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# Chapter 2

## PL/SQL Tutorial

### Stored Procedure

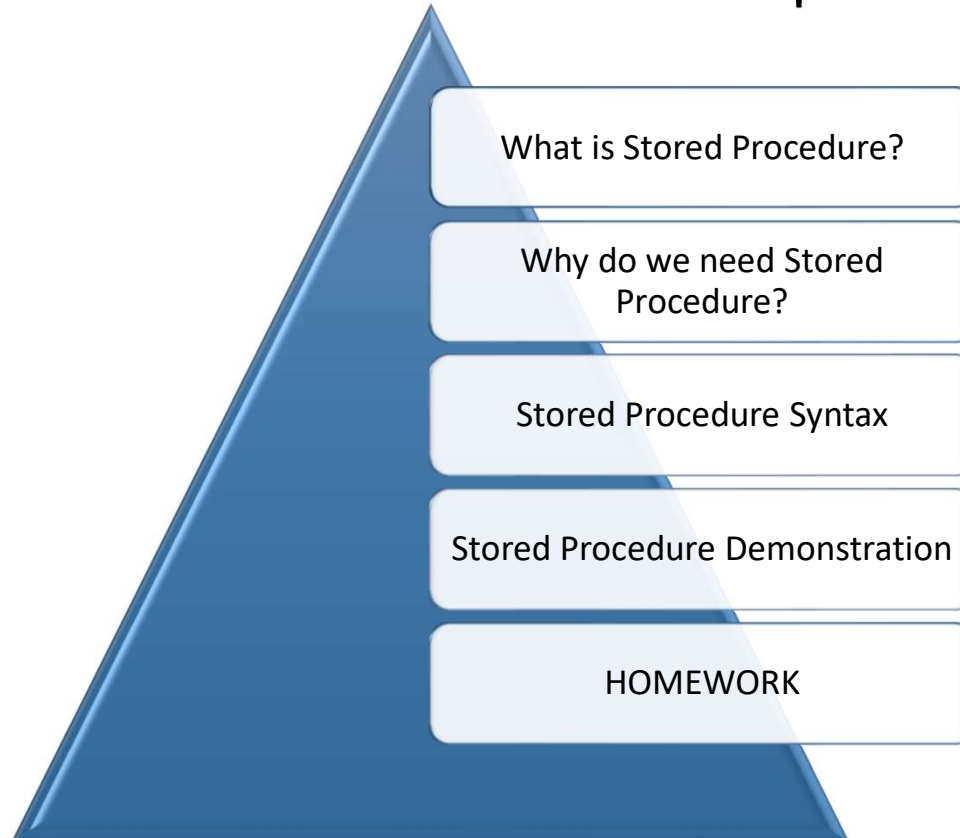
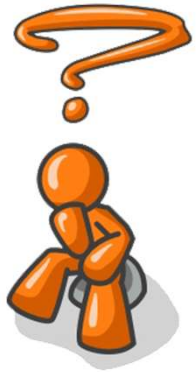


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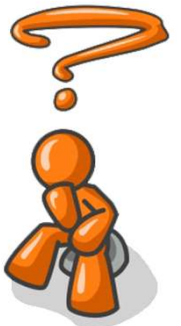
# What do we learn in this Chapter?





# What is Stored Procedure ?

Stored Procedure is one of the PL/SQL database objects which is a logically grouped set of SQL or PL/SQL procedural statements that perform a specific task.





## Why do we need Stored Procedure ?

- ☐ Performance
- ☐ Maintainability
- ☐ Security
- ☐ Productivity and ease of use
- ☐ Scalability
- ☐ Interoperability



Stored procedures can accept input **parameters** and return multiple values of output **parameters**. Stored procedures program statements to perform operations in the database and return a status value to a calling procedure or batch. They allow modular programming. They allow faster execution



# Stored Procedure Syntax

## Stored Procedure Syntax

### DECLARATIVE PART

Declaration of variables, constants,  
subprograms

### EXECUTABLE PART

Procedural Statements;  
SQL Statements;

### EXCEPTIONS

Exceptions handling code during  
execution

```
CREATE OR REPLACE PROCEDURE  
<procedure_name>  
(Argument {IN}* <Data type> )  
IS,AS  
<variable> declaration;  
<constant> declarations;  
BEGIN  
<PL/SQL subprogram body>;  
EXCEPTION PL/SQL BLOCK>;  
END <procedure_name>;
```

\* IN – parameter will accept a value from user



# Stored Procedure Demonstration

```
create or replace PROCEDURE procedure2(col a in varchar2, col b in number)
IS
n number;
BEGIN
select col b into n from tablea where col a='ROW11';
DBMS_OUTPUT.PUT_LINE('Hello World!' || n );

END;
```



Table A

COLA	COLB
ROW11	20
ROW21	12





# Practice Project

STUDENT

ID	GRADE	NAME	MARKS
STD1	1	ALEX	56
STD2	5	ROBIN	67
STD3	2	JOHN	78



## HOME WORK!

### Instructions

1. Create a procedure to find name of students who scored marks more than 60
2. Create a procedure to update marks of student whose ID is STD2 from 67 to 76.

For more resource , assistance and questions , please contact  
[techranch2019@gmail.com](mailto:techranch2019@gmail.com)

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# Conclusion

PL/SQL

Stored  
Procedure

Functions

Trigger

Cursors

Demonstration

Interview Tips

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# THANK YOU



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