PL/SQL INTERVIEW QUESTIONS

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Dear readers, these **PL/SQL Interview Questions** have been designed specially to get you acquainted with the nature of questions you may encounter during your interview for the subject of **PL/SQL**. As per my experience good interviewers hardly plan to ask any particular question during your interview, normally questions start with some basic concept of the subject and later they continue based on further discussion and what you answer:

What is the purpose of the PL/SQL language?

PL/SQL is an extension of SQL. SQL is non-procedural. PL/SQL is a procedural language designed by oracle to overcome the limitations that exist in SQL.

Say True or False. If False, explain why.

Routines written in PL/SQL can be called in Oracle call interface, Java, Pro*C/C++, COBOL etc.

True.

Say True or False. If False, explain why.

PL/SQL does not have data types or variables.

False. PL/SQL has all features of a structured programming language including data types, variables, subroutines, modules and procedural constructs.

State few notable characteristics of PL/SQL.

- Block-structured language.
- Stored procedures help better sharing of application.
- Portable to all environments that support Oracle.
- Integration with the Oracle data dictionary.

Name few schema objects that can be created using PL/SQL?

- Stored procedures and functions
- Packages
- Triggers
- Cursors

State some features or programming constructs supported by PL/SQL.

- Variables and constants
- Embedded SQL support
- Flow control
- Cursor management
- Exception handling
- Stored procedures and packages
- Triggers

What are the three basic sections of a PL/SQL block?

- Declaration section
- Execution section

· Exception section

What is wrong in the following assignment statement?

balance = balance + 2000;

Use of wrong assignment operator. The correct syntax is: balance := balance + 2000;

Write a single statement that concatenates the words 'Hello' and 'World' and assign it in a variable named greeting.

greeting := 'Hello' || 'World';

Which operator has the highest precedence among the following -

AND, NOT, OR?

NOT

Which of the following operator has the lowest precedence among the following —

**, OR, NULL?

OR

What does the colon sign: implies in the following statement?

:deficit := balance - loan;

The colon : sign implies that the variable : deficit is an external variable.

What is the purpose of %type data type? Explain with example.

It assigns a variable the same data type used by the column, for which the variable is created. For example,

dcode := dept.detpno%type;

The variable dcode is created with the same data type as that of the deptno column of the dept table.

What is the purpose of %rowtype data type? Explain with example.

It declares a composed variable that is equivalent to the row of a table. After the variable is created, the fields of the table can be accessed, using the name of this variable.

For example

emptype := emp%rowtype;

name := emptype.empname;

What is a PL/SQL package?

A package is a file that groups functions, cursors, stored procedures, and variables in one place.

What is a trigger?

A trigger is a PL/SQL program that is stored in the database and executed immediately before or after the INSERT, UPDATE, and DELETE commands.

What are the PL/SQL cursors?

Oracle uses workspaces to execute the SQL commands. In other words, when Oracle processes a SQL command, it opens an area in the memory called Private SQL Area. A cursor is an identifier for this area. It allows programmers to name this area and access it's information.

Say True or False. If False, explain why.

PL/SQL engine is part of Oracle Server.

True.

Say True or False. If False, explain why.

The BEGIN declaration starts the variable declaration sections of a PL/SQL block.

False. The BEGIN declaration starts the execution section.

Say True or False. If False, explain why.

The PL/SQL engine executes the procedural commands and passes the SQL commands for the Oracle server to process.

True.

Say True or False. If False, explain why.

PL/SQL supports the CREATE command.

False. PL/SQL doesn't support the data definition commands like CREATE.

What is returned by the cursor attribute SQL%ROWCOUNT?

It returns the number of rows that are processed by a SQL statement.

What is returned by the cursor attribute SQL%FOUND?

It returns the Boolean value TRUE if at least one row was processed.

What is returned by the cursor attribute SQL%NOTFOUND?

It returns the Boolean value TRUE if no rows were processed.

Which command/commands allow iteration a use of loops in a PL/SQL block?

LOOP command, FOR.. LOOP command, WHILE command.

What is the difference in execution of triggers and stored procedures?

A trigger is automatically executed without any action required by the user, whereas, a stored procedure needs to be explicitly invoked.

What are the uses of triggers?

Basically triggers are used to create consistencies, access restriction and implement securities to the database. Triggers are also used for –

- Creating validation mechanisms involving searches in multiple tables
- Creating logs to register the use of a table
- Update other tables as a result of inclusion or changes in the current table.

Say True or False. If False, explain why.

Triggers can be associated to a view.

True.

Say True or False. If False, explain why.

When a trigger is associated to a view, the base table triggers are normally disabled.

False. When a trigger is associated to a view, the base table triggers are normally enabled.

Say True or False. If False, explain why.

A trigger can perform the role of a constraint, forcing an integrity rule.

True.

Say True or False. If False, explain why.

A trigger can execute the COMMIT, ROLLBACK, or SAVEPOINT commands.

A trigger cannot execute the COMMIT, ROLLBACK, or SAVEPOINT commands.

What is the use of a WHEN clause in a trigger?

A WHEN clause specifies the condition that must be true for the trigger to be triggered.

Say True or False. If False, explain why.

Statement level triggers are triggered only once.

True.

What is the purpose of the optional argument [OR REPLACE] in a CREATE TRIGGER command?

The optional argument [OR REPLACE] in a CREATE TRIGGER command re-creates an existing trigger. Using this option allows changing the definition of an existing trigger without having to delete it first.

Say True or False. If False, explain why.

INSTEAD OF is a valid option only for triggers in a table.

False. INSTEAD OF is a valid option only for views. INSTEAD OF trigger cannot be specified in a table.

Write a statement to disable a trigger named update_marks.

ALTER TRIGGER update marks DISABLE;

Which command is used to delete a trigger?

DROP TRIGGER command.

Which command is used to delete a procedure?

DROP PROCEDURE command.

What is the difference between a function and a stored procedure?

A function returns a value and a stored procedure doesn't return a value.

How do you declare a user-defined exception?

User defined exceptions are declared under the DECLARE section, with the keyword EXCEPTION. Syntax —

<exception_name> EXCEPTION;

What do you understand by explicit cursors?

Explicit cursors are defined explicitly using the CURSOR statement, with a general syntax —

CURSOR cursor name [parameters] IS query expression;

It allows processing queries that return multiple rows.

What are the steps that need to be performed to use an explicit cursor? Discuss briefly.

The steps that need to be performed on explicit cursor are –

• **DECLARE** – assigns a name to the cursor and defines the structure of guery within it.

- **OPEN** executes the query, whereby the rows returned by the query are available for fetching.
- **FETCH** assigns values from the current row *cursorposition* into specified variables.
- **CLOSE** releases the memory space.

PL/SQL packages usually have two parts. What are these two parts?

PL/SQL packages have two parts -

- Specification part where the interface to the application are defined.
- Body part where the implementation of the specification are defined.

Which commands are used for creating PL/SQL packages?

CREATE PACKAGE command is used for creating the specification part. CREATE PACKAGE BODY command is used for creating the body part.

How do you refer to the types, objects and subprograms declared within a package?

The types, objects, and subprograms declared within a package are referred to using the dot notation as —

package name.type name

package name.object name

package name.subprogram name

Say True or False. If False, explain why.

PL/SQL allows subprogram overloading feature within a package.

True.

Which command is used to delete a package?

The DROP PACKAGE command.

What is the difference between implicit and explicit cursors?

Oracle implicitly declares a cursor to all the DDL and DML commands that return only one row. For queries returning multiple rows, an explicit cursor is created.

Say True or False. If False, explain why.

The %NOTFOUND attribute returns true when the cursor is not created explicitly.

False. The %NOTFOUND attribute returns true when the last row of the cursor is processed and no other row is available.

Say True or False. If False, explain why.

The %ROWCOUNT attribute returns the total number of rows returned by the FETCH command.

True.

What is Next?

Further you can go through your past assignments you have done with the subject and make sure you are able to speak confidently on them. If you are fresher then interviewer does not expect you will answer very complex guestions, rather you have to make your basics concepts very strong.

Second it really doesn't matter much if you could not answer few questions but it matters that whatever you answered, you must have answered with confidence. So just feel confident during your interview. We at tutorialspoint wish you best luck to have a good interviewer and all the very

hest for your future endeavor Cheers :-)
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