PL/pgSQL (Control Statements)

IF statement

IF statement let you execute alternative commands based on certain conditions. **PL/pgSQL** has **three forms** of IF.

- ```
  IF ... THEN ... END IF
  ```
- ```
  IF ... THEN ... ELSE ... END IF
  ```
- ```
  IF ... THEN ... ELSIF ... THEN ... ELSE ... END IF
  ```

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CASE statement

```
CASE search-expression
    WHEN expression [, expression [ ... ]] THEN
        statements
  [ WHEN expression [, expression [ ... ]] THEN
        statements
    ... ]
  [ ELSE
        statements ]
END CASE;
```

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Simple Loop statement

```
LOOP
    -- some computations
    IF count > 0 THEN
        EXIT;  -- exit loop
    END IF;
END LOOP;
LOOP
    -- some computations
    EXIT WHEN count > 0;  -- same result as previous example
END LOOP;
<<ablock>>
BEGIN
    -- some computations
    IF stocks > 100000 THEN
        EXIT ablock;  -- causes exit from the BEGIN block
    END IF;
    -- computations here will be skipped when stocks > 100000
END;
```

CONTINUE statement

```
CONTINUE [ label ] [ WHEN boolean-expression ];

LOOP
    -- some computations
    EXIT WHEN count > 100;
    CONTINUE WHEN count < 50;
    -- some computations for count IN [50 .. 100]
END LOOP;
```

WHILE statement

```
[ <<label>> ]
WHILE boolean-expression LOOP
    statements
END LOOP [ label ];
```

FOR statement

For (integer numbers)

```
[ <<label>> ]
FOR name IN [ REVERSE ] expression .. expression [ BY expression ] LOOP
    statements
END LOOP [ label ];
```

Looping through Query Results

```
[ <<label>> ]
FOR target IN query LOOP
    statements
END LOOP [ label ];
```

Looping through Arrays

```
[ <<label>> ]
FOREACH target [ SLICE number ] IN ARRAY expression LOOP
    statements
END LOOP [ label ];
```

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Interview Questions