SQL statements in PL/SQL

The following SQL operations can be accommodated in PL SQL:

- Extract a row of data from the database by using the SELECT command.
- Make changes to rows in the database by using DML commands.
 - **►INSERT**
 - *▶***UPDATE**
 - **► DELETE**
- Control a transaction with the COMMIT, ROLLBACK, or SAVEPOINT command.

Retrieving Data in PL/SQL

- Data can be retrieved from the database using SELECT command.
- SELECT statement must be used with the INTO clause
- The SELECT query must return exactly one row.
- If no rows are returned or if more than one record is returned then exception would be raised.
- More than one column or a * can be included in the SELECT list
- The number and data type of variables after INTO clause should match with the select_list columns.

Syntax:

Example:

```
DECLARE
  v_empid employee.emp_id%TYPE;
  v_empname employee.emp_name%TYPE;

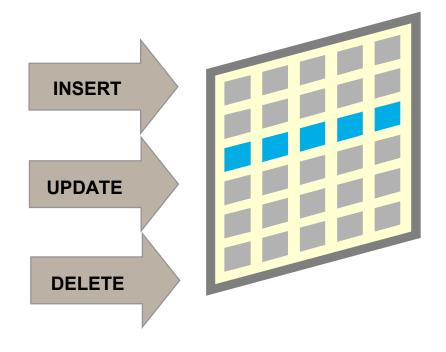
BEGIN

SELECT emp_id, emp_name
  INTO v_empid, v_empname
  FROM employee

WHERE id = 620;
   dbms_output.put_line('Employee Name'||v_empname);
END;
```

Make changes to database tables by using DML commands:

- INSERT
- UPDATE
- DELETE



Updating and Deleting Data Example

• Increase the salary of all employees in the EMP table who are Analysts Example:

Delete rows that belong to department 10 from the emp table.

```
DECLARE
  v_deptno emp.deptno%TYPE := 10;
BEGIN
  DELETE FROM emp
  WHERE deptno = v_deptno;
END;
```