PL-SQL_Lab-3

(Cursors in PL/SQL)

Consider the table Student (Rollno, name, age, mark1, mark2, mark3, total). (For Q1 to Q6)

1. Write a pl/sql code using cursor, which will delete all those records from the Student table where age < 25 and insert those records into another table called Student-minor.
2. Write a pl/sql code using cursor, which will find the total marks of each student and update the total column (assume that initially, the total is zero for all the students).
3. Write a pl/sql code using cursor to find out how many students are there whose total marks are greater than 90, and then display their details.
4. Write a pl/sql code using cursor to find the highest and lowest marks and display the corresponding student's details.
5. Write a pl/sql code using cursor to find the average mark of all the students and display it on the screen.
6. Write a stored procedure using a parameterized cursor, which will display the student details whose rollno is passing as a parameter to the cursor from the stored procedure.

Consider the table EMP (empno, ename, job, sal, deptno) (For Q7 to Q10)

7. Write a PL/SQL code to demonstrate %TYPE and %ROWTYPE to display details of employees in EMP table.
8. Write a stored function to display the empno, ename, and job of employees of a department for EMP table using a parameterized cursor where deptno will be sent as a parameter to the cursor from the stored function.
9. Write a local function to display the employee number and name of the top 'n' highest-paid Employees using parameterized cursor. The value of 'n' is passed to the cursor as a parameter from the local function.
10. Write a local procedure to calculate the total salary of the first 'n' records of EMP table using parameterized cursor. The value of 'n' is passed to cursor as a parameter from the local procedure.

(Exception Handling in PL/SQL)

11. Write a PL/SQL program to demonstrate the following exceptions:
    - When Too Many Rows
    - When No Data Found
    - When Others

12. Write a PL/SQL program to demonstrate the User Defined Exceptions.