

Practical-6 (11)

Topics: Interaction with Database

1. Do as directed in Python IDLE:
 - a. Develop a MySQL table Student. Provide following columns:
rollno int, name varchar (20), birthdate date, gender char(1), semester int(1), python_marks decimal, java_marks decimal, php_marks decimal, total_marks decimal, percentage decimal, grade.
 - b. Develop a menu-based program to support following operations:
 - i. Insert new row in the Student table (insert only: rollno, name, birthdate, gender, semester, python_marks, java_marks, php_marks) (Insert at least 10 rows with **appropriate data**)
 - ii. Calculate total_marks in all rows
 - iii. Calculate percentage in all rows
 - iv. Calculate grade in all rows
 - v. Update an existing row in the Student table (based on rollno)
 - vi. Delete a row in the Student table (based on rollno)
 - vii. Display merit list
 - viii. Display top 3 students' records
 - ix. Display top 2 girls's records
 - x. Display records of boys who have passed in any TWO subjects.
2. [OPTIONAL] Do as directed in Python IDLE:
 - a. Create a stored procedure 'spInsertRow()' with appropriate parameters to insert a row in the Student table.
 - b. Invoke the stored procedure spInsertRow() from Python program.
 - c. Create a stored procedure 'spFetchMeritList()' to return merit list.
 - d. Invoke the stored procedure spFetchMeritList() from Python program.