Usage Scenarios for All Stored Procedures

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| Stored Procedure | Scenario | Execution Code |
| InsertRole | Adding a new role 'Teacher'. | EXEC InsertRole @RoleName = 'Teacher'; |
| UpdateRole | Updating role ID 1 to 'Administrator'. | EXEC UpdateRole @RoleID = 1, @NewRoleName = 'Administrator'; |
| DeleteRole | Deleting role ID 2. | EXEC DeleteRole @RoleID = 2; |
| GetRoles | Retrieving all roles from the database. | EXEC GetRoles; |
| InsertUser | Adding a new user with username 'john\_doe'. | EXEC InsertUser @Username = 'john\_doe', @Password = 'password123', @RoleID = 1; |
| UpdateUser | Updating user information for user ID 1. | EXEC UpdateUser @UserID = 1, @NewUsername = 'john\_updated'; |
| DeleteUser | Deleting user with ID 2. | EXEC DeleteUser @UserID = 2; |
| GetUsers | Retrieving all users from the database. | EXEC GetUsers; |
| InsertTeacher | Adding a new teacher named 'Alice Smith'. | EXEC InsertTeacher @FirstName = 'Alice', @LastName = 'Smith', @Email = 'alice@example.com'; |
| UpdateTeacher | Updating teacher ID 1's email. | EXEC UpdateTeacher @TeacherID = 1, @NewEmail = 'alice\_updated@example.com'; |
| DeleteTeacher | Deleting teacher with ID 2. | EXEC DeleteTeacher @TeacherID = 2; |
| GetTeachers | Retrieving all teachers from the database. | EXEC GetTeachers; |
| InsertStudent | Adding a new student named 'Bob Johnson'. | EXEC InsertStudent @FirstName = 'Bob', @LastName = 'Johnson', @DateOfBirth = '2005-04-01', @Email = 'bob@example.com'; |
| UpdateStudent | Updating student ID 1's last name. | EXEC UpdateStudent @StudentID = 1, @NewLastName = 'Johnson-Smith'; |
| DeleteStudent | Deleting student with ID 2. | EXEC DeleteStudent @StudentID = 2; |
| GetStudents | Retrieving all students from the database. | EXEC GetStudents; |
| InsertContact | Adding a new contact for student ID 1. | EXEC InsertContact @StudentID = 1, @Phone = '123-456-7890'; |
| UpdateContact | Updating contact ID 1's phone number. | EXEC UpdateContact @ContactID = 1, @NewPhone = '987-654-3210'; |
| DeleteContact | Deleting contact with ID 2. | EXEC DeleteContact @ContactID = 2; |
| GetContacts | Retrieving all contacts from the database. | EXEC GetContacts; |
| InsertClass | Creating a new class called 'Biology 101'. | EXEC InsertClass @ClassName = 'Biology 101', @TeacherID = 1; |
| UpdateClass | Renaming class with ID 1 to 'Advanced Biology'. | EXEC UpdateClass @ClassID = 1, @NewClassName = 'Advanced Biology'; |
| DeleteClass | Deleting class with ID 2. | EXEC DeleteClass @ClassID = 2; |
| GetClasses | Getting a list of all classes. | EXEC GetClasses; |
| InsertSubject | Adding a new subject named 'Mathematics'. | EXEC InsertSubject @SubjectName = 'Mathematics'; |
| UpdateSubject | Updating subject name for ID 1 to 'Algebra'. | EXEC UpdateSubject @SubjectID = 1, @NewSubjectName = 'Algebra'; |
| DeleteSubject | Deleting subject with ID 2. | EXEC DeleteSubject @SubjectID = 2; |
| GetSubjects | Retrieving all subjects from the database. | EXEC GetSubjects; |
| InsertClassSubject | Linking class ID 1 to subject ID 1. | EXEC InsertClassSubject @ClassID = 1, @SubjectID = 1; |
| DeleteClassSubject | Removing the link between class subject ID 1. | EXEC DeleteClassSubject @ClassSubjectID = 1; |
| GetClassSubjects | Getting all class-subject relationships. | EXEC GetClassSubjects; |
| InsertEnrollment | Enrolling student ID 1 in class ID 1. | EXEC InsertEnrollment @StudentID = 1, @ClassID = 1, @EnrollmentDate = GETDATE(); |
| DeleteEnrollment | Unenrolling enrollment ID 1. | EXEC DeleteEnrollment @EnrollmentID = 1; |
| GetEnrollments | Retrieving all enrollments from the database. | EXEC GetEnrollments; |
| InsertGrade | Assigning a grade of 85.5 for student ID 1 in class ID 1. | EXEC InsertGrade @StudentID = 1, @ClassSubjectID = 1, @Grade = 85.5, @GradeDate = GETDATE(); |
| UpdateGrade | Updating grade ID 1 to a new value of 90. | EXEC UpdateGrade @GradeID = 1, @NewGrade = 90; |
| DeleteGrade | Deleting grade entry ID 2. | EXEC DeleteGrade @GradeID = 2; |
| GetGrades | Retrieving all grades from the database. | EXEC GetGrades; |