

Data Model1:ERDDiagram1

Tables and Attributes:

- Bench**: Bench_Id, User_Id, Availability
- Users**: user_id, user_name, password, email, first_name, last_name, Gender, Phone_No, Join_Date, Designation_Id, User_status
- Designation**: Designation_Id, Designation
- Allocate_User_TestCase**: Allocate_User_TestCase_Id, User_Id, Allocate_Project_Id
- Project_Allocation**: Project_Assign_Id, User_Id, Project_Id, Allocation_Percentage, Role_Id, Start_date, End_date
- Project_User_Privilege**: UserPrivilege_Id, Privilege_Id, Project_Assign_Id
- Release**: Release_Id, Release_Name, Project_Id
- Testcase_Status**: TestcaseStatus_Id, TestcaseStatus
- Allocate_Testcase**: AssignTestcase_Id, Release_Id, Testcase_Id, Test_Date, Test_Time, TestcaseStatus_Id, Defect_Id, owner (User id)
- Defect**: Defect_Id, Defect_Title, Descriptions, Testcase_Id, Assignee, Severity_Id, DefectStatus_Id, Priority_Id, DefectType_Id, Reopen_Count, Attachment, AssignTo, Steps, ReleaseTestcase_Id
- Severity**: Severity_Id, Severity_Color
- Priority**: Priority_Id, Priority_Color
- Defect_History**: Defect_History_Id, Defect_Id, Defect_Status_Id, AssigneeBY, AssignedTo, Release_Id, Date and time
- Submodule**: Submodule_Id, Module_Id, Submodule_Name
- Testcases**: Testcase_Id, Testcase_Submodule_Id, Descriptions, Severity_Id, Steps, Module_Id
- Testcase_Type**: TestcaseType_Id, Testcase_Type
- Comments**: Comments_Id, User_Id, Defect_Id, Comment, Attachment
- Module**: Module_Id, Module_Name, Project_Id
- Allocate_Modules**: Allocate_Module_Id, Submodule_Id, User_Id, Module_Id

Relationships and Annotations:

- Project_Allocation_History**: A blue box highlighting Project_Assign_Id, User_Id, Project_Id, Allocation_Percentage, Role_Id, Start_date, and End_date in the Project_Allocation table.
- Release**: A green box highlighting Release_Id, Release_Name, and Project_Id in the Release table.
- Previous_Status**: A green box highlighting Defect_Id, Defect_Title, Descriptions, Testcase_Id, Assignee, Severity_Id, DefectStatus_Id, Priority_Id, DefectType_Id, Reopen_Count, Attachment, AssignTo, Steps, and ReleaseTestcase_Id in the Defect table.
- Release Id Date and time**: A green box highlighting Release_Id, Date and time, and Defect_Id in the Defect_History table.
- ENUM Value (Pass / Fail)**: A green box highlighting TestcaseStatus_Id and TestcaseStatus in the Testcase_Status table.
- Type**: A green box highlighting TestcaseType_Id and Testcase_Type in the Testcase_Type table.

Other Annotations:

- Allocate_User_TestCase**: A blue 'X' is drawn over the table name.
- Testcase_Status**: A blue 'X' is drawn over the table name.
- Allocate_Testcase**: A blue 'X' is drawn over the table name.
- Defect**: A blue 'X' is drawn over the table name.
- Testcases**: A blue 'X' is drawn over the table name.
- Testcase_Type**: A blue 'X' is drawn over the table name.
- Comments**: A blue 'X' is drawn over the table name.
- Module**: A blue 'X' is drawn over the table name.
- Allocate_Modules**: A blue 'X' is drawn over the table name.