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Preliminary Design

My database will need to support an application used for Suicide Risk Assessments for trouble teens. The assessments will consist of a series of questions from one of four tests, and the ordering of the questions is dependent upon previously answered questions in the test. The database must support the storage of the questions and the answers, as well as the Test Takers and Test Administrators. Furthermore the database should be able to satisfy queries such as:

Which answers were given for a specific Test ID

Which questions were on a specific Test ID

Which tests a user has taken

Which Administrator users are assigned to

Entities:

Answers

* ID
* Value
* TestID
* QuestionsID

Tests

* ID
* Type
* TestTakerID
* AnswerID

Questions

* ID
* Type
* Value

TestTakers

* ID
* FirstName
* LastName
* Age
* School
* RiskAssessment
* TestAdministratorID

TestAdminstrators

* ID
* FirstName
* LastName

Relationships:

There will be a 1 to many relationship between TestAdministrators and TestTakers.

There will be a 1 to many relationship between TestTakers and TestIDs

There will be a 1 to many relationship between TestIDs and QuestonID

There will be a 1 to 1 relationship between QuestionID and AnswerID