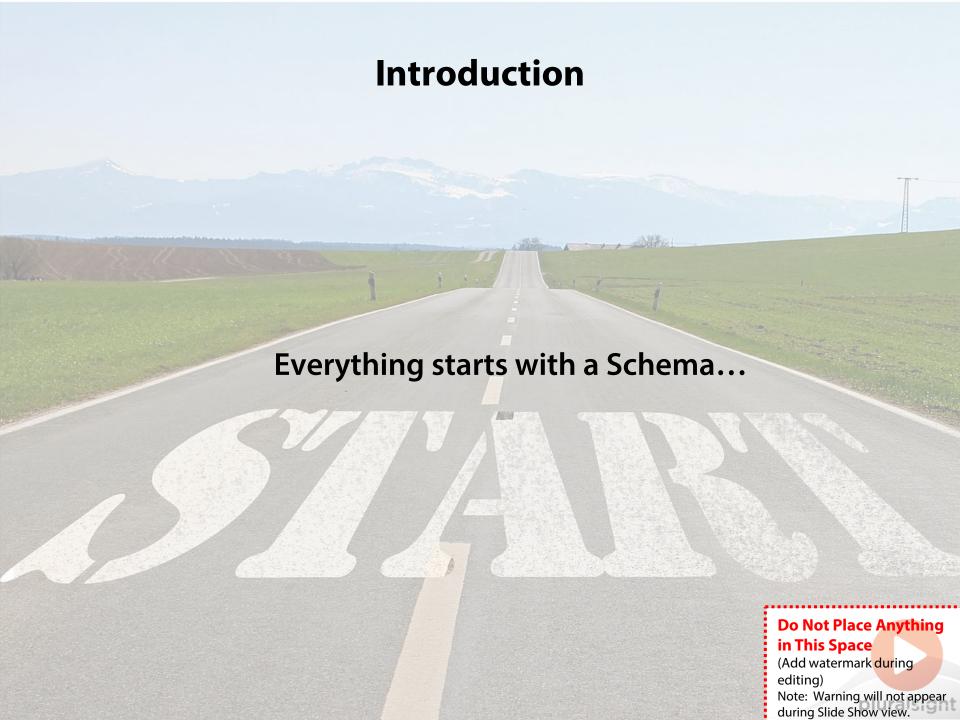
Building the Mongoose Schema

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Comparison: RDBMS – Mongoose Schema





Complex Schema

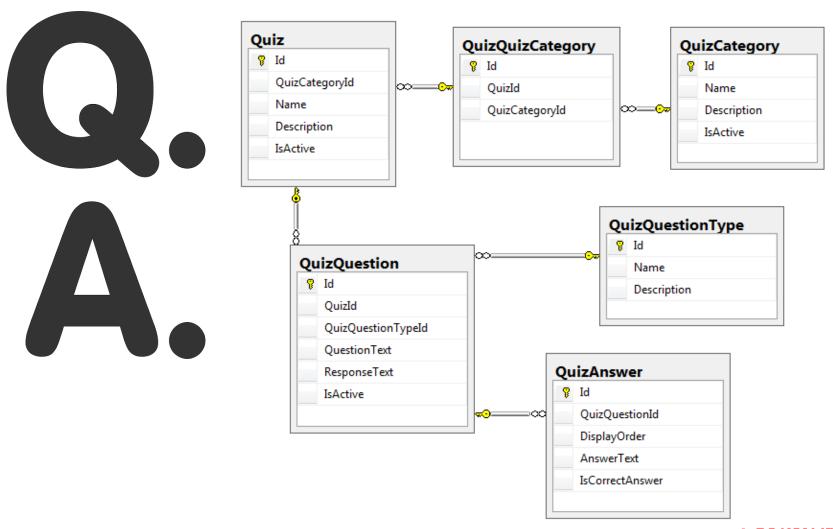
Simple Schema



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Comparison – RDBMS Schemas



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Mongoose Schema

ne scription ctive
Categories []
Questions [] QuestionType QuestionText
Answers []

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Simple Schema Example

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
var customerSchema = new Schema({
                 String,
      name:
      address: String,
      city: String,
       state: String,
      country: String,
       zipCode: Number,
      createdOn: Date,
       isActive: Boolean
} );
var simpleSchema = new Schema({ fieldName: SchemaType });
```

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Allowed Data Types

Mongoose Schema Types	JavaScript Data Types
String	String
Number	Number
Date	Object
Buffer	Object
Boolean	Boolean
Mixed	Object
ObjectId	Object
Array	Array (Object)

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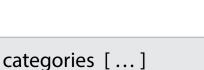
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More Complex Schema Example

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
// child address schema...
var addressSchema = new Schema({
    type: String,
    street: String,
    city: String,
    state: String,
    country: String,
    postalCode: Number
});
// parent customer schema...
var customerSchema = new Schema({
    name: {
        first: String,
        last: String
    address: [ addressSchema ],
    createdOn: { type: Date, default: Date.now },
    isActive: { type: Boolean, default: true},
});
```

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
// Pre-define sub-documents...
var subCategory = {
        name: String,
        description: String,
         isActive: Boolean };
var subAnswers = {
         answerText: String,
         isCorrect: Boolean,
        displayOrder: Number };
var subQuestions = {
        questionType: String,
        questionText: String,
        answers: [ subAnswers ] };
// Define main document schema...
var quizSchema = new Schema({
    name: String,
    description: String,
    categories: [ subCategory ],
    questions: [ subQuestions ]
});
```

```
name
description
isActive
```



```
questions [ ... ]
questionType
questionText
```

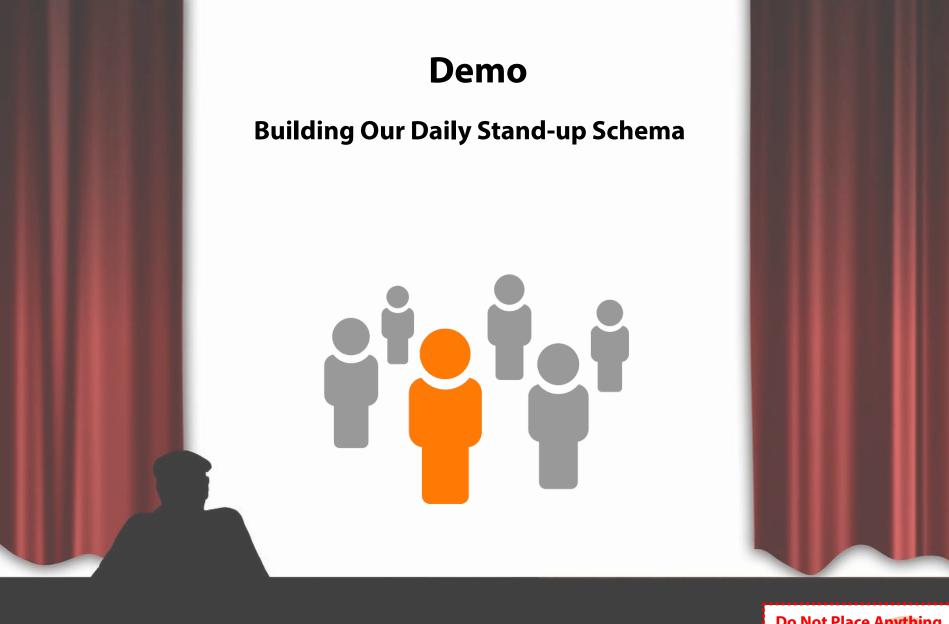
```
answers [...]
```

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
// Pre-define sub-documents...
var subCategory = {
        name: String,
         description: String,
         isActive: Boolean };
var subAnswers = {
         answerText: String,
         isCorrect: Boolean,
         displayOrder: Number };
var subQuestions = {
         type: String,
         text: String,
         answers: [ subAnswers ] };
// Define main document schema...
var quizSchema = new Schema({
    name: String,
    description: String,
    categories: [ subCategory ],
    questions: [ subQuestions ]
});
```

```
"_id": ObjectId("5422cef53ba88f182229f450"),
"name": "Test Quiz",
"description": "Test Quiz long description...",
"questions":[
  "[object Object]",
  "[object Object]"
"categories" : [
    "name": "programming",
    "description": "programming category",
    "isActive": true,
    "_id" : ObjectId("5422cef53ba88f182229f452")
    "name": "Test2",
    "description": "Test 2 category",
    "isActive": true,
    "_id" : ObjectId("5422cef53ba88f182229f451")
```

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
// Pre-define sub-documents...
var subCategory = {
        name: String,
         description: String,
         isActive: Boolean };
var subAnswers = {
         answerText: String,
         isCorrect: Boolean,
         displayOrder: Number };
var subQuestions = {
         type: { type: String },
         text: String,
         answers: [ subAnswers ] };
// Define main document schema...
var quizSchema = new Schema({
    name: String,
    description: String,
    categories: [ subCategory ],
    questions: [ subQuestions ]
});
```

```
"_id": ObjectId("5422cfdb36663a0424d7a66b"),
"name": "Test Quiz",
"description": "Test Quiz long description...",
"questions":[
    "type": "Multiple-Choice",
    "text": "What is your favorite color?",
    "_id": ObjectId("5422cfdb36663a0424d7a670"),
    "answers" : [
        "answerText": "Red",
        "isCorrect": false,
        "displayOrder": 1,
        "_id": ObjectId("5422cfdb36663a0424d7a673")
     // abbreviated for brevity sake . . .
"categories":[
   // abbreviated for brevity sake . . .
```



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