

PathPioneer database structure

This is the database structure of PathPioneer, a simple product that empower IT interns and enabling them to pursue successful and fulfilling IT careers.

- 📌 This table structure allows for the systematic organization and retrieval of assessment questions based on their content, difficulty level, industry context, focus area, and topic. Each column has specific constraints to ensure data integrity and completeness.

The Structure :

```
1 CREATE TABLE questions (  
2   id INTEGER PRIMARY KEY AUTOINCREMENT,  
3   question TEXT NOT NULL,  
4   options TEXT NOT NULL,  
5   correct_answer TEXT NOT NULL,  
6   level TEXT NOT NULL,  
7   industry TEXT NOT NULL,  
8   focus_area TEXT NOT NULL,  
9   topic TEXT NOT NULL  
10 )
```

Table name : questions

Description :

The `questions` table is designed to store information related to assessment questions. Each row in this table represents a single quiz question along with its corresponding options, correct answer, and additional metadata.

ID :

```
1 id (INTEGER, PRIMARY KEY, AUTOINCREMENT)
```

The unique identifier for each question. Automatically increments with each new question added to the table.

QUESTION :

```
1 question (TEXT, NOT NULL)
```

Stores the text of the quiz question. It cannot be NULL, ensuring that every question must have a text associated with it.

OPTIONS :

```
1 options (TEXT, NOT NULL)
```

Represents the options available for the quiz question. Options are stored as a text, possibly in a specific format (such as comma-separated values or JSON). It cannot be NULL, ensuring that every question has answer options.

CORRECT ANSWER :

```
1 correct_answer (TEXT, NOT NULL)
```

Specifies the correct answer to the quiz question. Stored as text, indicating the correct option(s) from the `options` column. It cannot be NULL, ensuring that every question has a correct answer.

LEVEL :

```
1 level (TEXT, NOT NULL)
```

Indicates the difficulty level of the question. Stored as text, representing the complexity or skill level required to answer the question (e.g., easy, intermediate, advanced). It cannot be NULL, providing information about the question's difficulty level.

INDUSTRY :

```
1 industry (TEXT, NOT NULL)
```

Specifies the industry context of the question. Stored as text, indicating the specific industry or field to which the question pertains (e.g., technology, healthcare, finance). It cannot be NULL, providing context about the industry related to the question.

FOCUS AREA :

```
1 focus_area (TEXT, NOT NULL)
```

Represents the focus area or category of the question within the specified industry. Stored as text, indicating a specific area of interest or expertise related to the question (e.g., programming, medical ethics, investment strategies). It cannot be NULL, providing detailed categorization of the question.

TOPIC :

```
1 topic (TEXT, NOT NULL)
```

Specifies the main topic or subject matter of the question. Stored as text, indicating the primary theme or subject to which the question belongs (e.g., algorithms, patient care guidelines, financial derivatives). It cannot be NULL, providing information about the main theme of the question.