|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| id | **BIGINT** | **20** | **Unique id for each question** | **1** |
| question | VARCHAR | 255 | Question in string format | Latest stable version of java ? |
| optA | VARCHAR | 255 | Possible answer 1 | Java 8 |
| optB | VARCHAR | 255 | Possible answer 2 | Java 9 |
| optC | VARCHAR | 255 | Possible answer 3 | Java 10 |
| optD | VARCHAR | 255 | Possible answer 4 | Java 17 |
| expected\_ans | JSON |  | Correct answer | Java 17 |
| marks\_per\_ques | INT | 11 | Marks per questions | 1 |
| neg\_marks\_per\_ques | INT | 11 | Negative Marks per question | 1/3 |
| image\_data | LONGBLOB |  | Image related to that question | Code snippet |
| date\_stamp | DATETIME | 6 | Current date and time when question is inserted |  |
| severity | VARCHAR | 80 | Question difficulty level | Easy, Medium, Hard |
| skill\_id | BIGINT | 20 | To identify category of question (FK) |  |
| file\_name | VARCHAR | 50 | Name of file which we are going to upload into the application | Question.csv |

**Table 1: question\_bank**

**Table 2: student\_skill (student\_competency+skill)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| student\_id | BIGINT | **20** | Unique id for each student (FK) | **1** |
| skillId | BIGINT | 20 | Unique id for each skill (FK) | 1 |
| date\_stamp | DATETIME |  | Current date and time when skill is inserted |  |

**Table 3: skill**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| student\_id | BIGINT | **20** | Unique id for each student (PK) | **1** |
| skill\_id | BIGINT | 20 | Unique id for each skill (FK) | 2 |
| experience\_id | BIGINT | 20 | Unique id for each experience (FK) | 2 |
| date\_stamp | DATETIME |  | Current date and time when student Competency is inserted |  |

**Table 4: student\_competency**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| **Id** | BIGINT | **20** | Unique id for each skill (PK) | **1** |
| Skill\_name | VARCHAR | 45 | Name of the skill | Java |
| description | VARCHAR | 100 | Description of this skill | OOPS, Java 8 features etc. |

**Table 5: experience**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| id | BIGINT | **20** | Unique id for each experience (PK) | **1** |
| no\_of\_years | INT | 11 | Experience of candidate in years | 2 |
| speciality | VARCHAR | 80 | Specialty of candidate | Tester/Developer/QA |

**Table 6: student\_exp**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| student\_id | BIGINT | **20** | Unique id from student\_competency table | **1** |
| experience\_id | BIGINT | 20 | Unique id from experience table | 2 |
| date\_stamp | DATETIME |  | Current date and time when data inserted in table |  |

**Table 7: result**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| id | BIGINT | **20** | Unique id for each result of candidate (PK) | **1** |
| student\_id | BIGINT | 20 | Student id associated with this result | 2 |
| student\_marks | INT | 11 | Marks of student for given exam | 45 |
| total\_marks | INT | 11 | Total marks (Out of) for given exam | 50 |
| grade | INT | 11 | Grade of student for given exam | (45\*100)/50 |
| date\_stamp | DATETIME |  |  |  |

**Table 8: student\_response**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Field Size for display** | **Description** | **Example** |
| id | BIGINT | **20** | **Unique id for student response in given eaxm** | **1** |
| student\_id | BIGINT | 20 | Id of student associated with this response | 2 |
| question\_id | BIGINT | 20 | Id of question associated with this response | 3 |
| response | JSON |  | One or more answers of a question | [1] |
| date\_stamp | DATETIME |  |  |  |