**3.2.5 Database dictionary**

This section describes the tables that are linked to the project. These nine tables is described in the following point:

* User
* User Subject
* Subject
* Faculties
* Universities
* Exam question
* Migration
* Department
* Exam
* Session
* Question
* Cache
* Password rest token
* Cache locks
* Personal access token

1. User

Store user information.

Table 1 User

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| User ID | Bigint(20) | Primary key |
| User Type | Varchar(255) |  |
| User Name | Varchar(255) |  |
| Email | Varchar(255) |  |
| Email verified at | Time stamp |  |
| Password | varchar(255) |  |
| Role | enum ( ‘admin’,’staff’,  ‘commissioner’,’teacher’) |  |
| Status | emun (‘active’,’inactive’) |  |
| Department Id | bigint(20) | Foreign key |
| Remember token | Varchar(100) |  |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. User subject

Table 2 User subject

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| User subject id | Bigint(20) | Primary key |
| User id | Bigint(20) | Foreign key |
| Subject id | Bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Subject

Displaying Subject Data and Their Associated Departments

Table 3 Subject

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Subject id | bigInt(20) | Primary key |
| Name | Varchar(255) |  |
| Semester | Varchar(255) |  |
| Level | enum(‘1’, ‘2’, ‘3’, ‘4’, ‘5’,) |  |
| Department id | bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Faculties

Table 4 Faculties

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Faculties id | bigInt(20) | Primary key |
| Name | Varchar(255) |  |
| University id | Bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Universities

Table 5 universities

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Universities id | Bigint(20) | Primary key |
| Name | Varchar(255) |  |
| Created at | Timestamp |  |
| Updated at | Timestamp |  |

1. Exam Question

Table 6 Exam Questions

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Exam Questions id | bigInt(20) | Primary key |
| Exam id | Bigint(20) | Foreign key |
| Question id | Bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Migrateons

Table 7 Migrations

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Migrations id | Bigint(20) | Primary key |
| Migration | Varchar(255) |  |
| batch | Int(11) |  |

1. Departments

Table 8 Departments

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Departments id | Bigint(20) | Primary key |
| Name | Varchar(255) |  |
| Faculty id | Bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Exams

Preparing the Subject Exam Paper

Table 9 Exams

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Exam id | Bigint(20) | Primary key |
| Name | Varchar(255) |  |
| Examiner | Varchar(255) |  |
| Level | enum(‘1’, ‘2’, ‘3’, ‘4’, ‘5’) |  |
| block | enum(‘1’, ‘2’, ‘3’, ‘4’, ‘5’,’6’) |  |
| Duration | Int(11) |  |
| Date | date |  |
| Department id | Bigint(20) | Foreign key |
| Subject id | Bigint(20) | Foreign key |
| Pdf path | Varchar(255) |  |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Sessions

Table 10 Sessions

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Session id | Varchar(255) | Primary key |
| User id | Bigint(20) |  |
| Ip address | Varchar(45) |  |
| User agent | Text |  |
| Payload | longtext |  |
|  |  |  |

1. Questions

Table 11 Questions

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Questions id | Bigint(20) | Primary key |
| Text | Varchar(255) |  |
| Answers | Longtext |  |
| Difficulty | enum(‘easy’,’medium’,’hard’) |  |
| Points | Smallint(6) |  |
| Subject id | Bigint(20) | Foreign key |
| Created at | timestamp |  |
| Updated at | timestamp |  |

1. Cache

Table 12 Cache

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Key | Varchar(255) | Primary key |
| Value | Mediumtext |  |
| Expiration | Int(11) |  |

1. Password rest tokens

Table 13 Password rest token

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| email | Varchar(255) | Primary key |
| Token | Varchar(255) |  |
| Expiration | Int(11) |  |

1. Cache locks

Table 14 cache locks

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Key | Varchar(255) | Primary key |
| Owner | varchar(255) |  |
| expiration | Int(11) |  |

1. Personal access token

Table 15 Personal access token

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data type** | **Key** |
| Personal access token id | Bigint(20) | Primary key |
| Tokenable type | Varchar(255) |  |
| Name | Varchar(255) |  |
| Token | Varchar(64) |  |
| Abilities | Text |  |
| Last used at | timestamp |  |
| Created at | timestamp |  |
| Updated at | timestamp |  |
|  |  |  |