**Table Design**

**department [Stores the Department details]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| dept\_id | INTEGER | PRIMARY KEY | id of the department |
| dept\_name | TEXT | NOT NULL | dept\_name |
| dept\_full\_name | TEXT | NOT NULL | Expanded form of the department name. |

**user [Stores the User basic details details]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| user\_id | INTEGER | PRIMARY KEY | id of the user |
| username | TEXT | NOT NULL | Username of the user |
| password | TEXT | NOT NULL | Password of the user. |
| email | TEXT | NOT NULL | Email id of the user. |
| first\_name | TEXT | NOT NULL | First name of the user. |
| last\_name | TEXT | NOT NULL | Last name of the user. |
| is\_superuser | BOOLEAN | NOT NULL | Whether the user has admin privilege or not. |
| is\_active | BOOLEAN | NOT NULL | Whether the user is an active user or not. |
| last\_login | DATE | NOT NULL | Last login of the user. |

**profile [Stores the profile details of all the users]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| prof\_id | INTEGER | PRIMARY KEY | id of the profile |
| user\_id | INTEGER | FOREIGN KEY | Reference the PK of user table |
| dept\_id | INTEGER | FOREIGN KEY | Reference the PK of department table. |
| is\_student | BOOLEAN | NOT NULL | Whether the user is a student or not. |
| image | BLOB | NOT NULL | Profile picture of the user. |

**semester\_tbl [Stores the Semester details of various departments]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| sem\_id | INTEGER | PRIMARY KEY | id of the semester |
| sem\_name | TEXT | NOT NULL | Semester name. |
| dept\_id | INTEGER | FOREIGN KEY | Reference the PK of department table |

**subject\_tbl [Stores the details of various subjects of different departments]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| sub\_id | INTEGER | PRIMARY KEY | id of the subject |
| subcode | TEXT | UNIQUE, NOT NULL | Subject code of the subject |
| sub\_name | TEXT | NOT NULL, UNIQUE | Subject Name |
| sem\_id | INTEGER | FOREIGN KEY | References the PK of the semester table |

**module [Stores the module names of various subjects]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| mo\_id | INTEGER | PRIMARY KEY | id of the module |
| module\_name | TEXT | NOT NULL | Name of the module. |

**co [Stores the course objective names level information]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| co\_id | INTEGER | PRIMARY KEY | id of the co |
| co\_name | TEXT | NOT NULL | Name of the co |

**co\_mapping [Stores the co mapping details of various subjects]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| co\_map\_id | INTEGER | PRIMARY KEY | id of the co\_mapping table |
| co\_id | INTEGER | FOREIGN KEY | References the PK of co table. |
| co\_map\_desc | TEXT | NOT NULL | Co description of the mapped co. |
| mod\_id | INTEGER | FOREIGN KEY | References the PK of module table. |
| sub\_id | INTEGER | FOREIGN KEY | References the PK of subject table. |

**blooms\_lvl [Stores the blooms level information]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| blm\_id | INTEGER | PRIMARY KEY | id of the bloms level |
| blm\_lvl\_name | TEXT | NOT NULL | Name of the blooms level |

**blooms\_keyword [Stores the details of blooms keywords for various levels]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| blmk\_id | INTEGER | PRIMARY KEY | id of the bloms verb |
| blmk\_verb | TEXT | NOT NULL | Blooms keyword verb |
| blm\_lvl\_id | INTEGER | FOREIGN KEY | References the PK of the blooms\_lvl table |

**mark\_tbl [Stores the details of marks of various questions]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| mrk\_id | INTEGER | PRIMARY KEY | id of the mark |
| mark\_disp | NUMBER | NOT NULL | mark |
| dept\_id | INTEGER | FORIEGN KEY | References the PK of the department table |

**question\_tbl [Stores the details of the questions]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| qn\_id | INTEGER | PRIMARY KEY | Id of the question |
| qn\_desc | TEXT | NOT NULL | Question description |
| qn\_fig | BLOB |  | Images to be included if available |
| sub\_id | INTEGER | FOREIGN KEY | References the PK of the subject table. |
| mod\_id | INTEGER | FOREIGN KEY | References the PK of the module table. |
| mrk\_id | INTEGER | FOREIGN KEY | References the PK of the mark table |
| klevel | INTEGER | FOREIGN KEY | References the PK of the blooms\_lvl |

**exam\_type [Stores the details of the examination]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| exm\_id | INTEGER | PRIMARY KEY | id of the exam |
| exm\_name | TEXT | NOT NULL | Exam Name |

**post [Stores the details of the announcements posted]**

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| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| p\_id | INTEGER | PRIMARY KEY | id of the post |
| title | TEXT | NOT NULL | Title of the post. |
| content | TEXT | NOT NULL | Content of the post. |
| date\_posted | DATE TIME | NOT NULL | Date on which the post is made. |
| author | INTEGER | FOREIGN KEY | Reference the PK of user table. |

**archive [Stores the details of the archived question papers]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Constraints** | **Description** |
| a\_id | INTEGER | PRIMARY KEY | id of the archive |
| dept\_id | INTEGER | FOREIGN KEY | Reference the PK of department table. |
| sem\_id | INTEGER | FOREIGN KEY | Reference the PK of semester table. |
| exm\_id | INTEGER | FOREIGN KEY | Reference the PK of exam\_type table. |
| desc | TEXT | NOT NULL | Description of the qn paper. |
| attachement | BLOB | NOT NULL | File attachment of the qn paper. |