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| --- | --- | --- | --- |
| **Entity Name** | **Description** | **Aliases** | **Occurrence** |
| Quiz | A sorted collection of flashcards |  |  |
| Flashcard | A resource containing two sides of text |  |  |
| Dictionary | A collection of flashcards related to a topic | Deck |  |
| Resource | Some form of learning material | Item |  |
| Note | A resource containing one side of text, which can be formatted according to the user |  |  |
| User | Someone that has access to the system | Account |  |
| Scholar | General user who does not have class creating privileges | Student |  |
| Educator | User with the ability to create and manage classes | Teacher |  |
| Classruum | A group that allows Educators to share resources with Scholars | Class |  |
| Foruum | A public domain conversation hub which can be directly related to a specific Classruum | Forum |  |
| Comment | An interaction posted by the User on a specific Foruum |  |  |

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| **Entity** | **Multiplicity** | **Relationship** | **Multiplicity** | **Entity** |
| Quiz |  |  |  |  |
| Flashcard |  |  |  |  |
| Dictionary |  |  |  |  |
| Resource |  |  |  |  |
| Note |  |  |  |  |
| User |  |  |  |  |
| Scholar |  |  |  |  |
| Educator |  |  |  |  |
| Classruum |  |  |  |  |
| Foruum |  |  |  |  |
| Comment |  |  |  |  |

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| --- | --- | --- | --- | --- | --- |
| **Entity** | **Attributes** | **Description** | **Data type and Length** | **Nulls** | **Multi-Valued** |
| Quiz | QuizID |  |  |  |  |
| Flashcard | FlashcardID |  |  |  |  |
| Dictionary | DictionaryID |  |  |  |  |
| Resource | ResourceID |  |  |  |  |
| Note | NoteID |  |  |  |  |
| User | UserID |  |  |  |  |
| Scholar | UserID |  |  |  |  |
| Educator | UserID |  |  |  |  |
| Classruum | ClassID |  |  |  |  |
| Foruum | ForumID |  |  |  |  |
| Comment | CommentID |  |  |  |  |

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| --- | --- | --- | --- | --- |
| **Entity** | **Attributes** | **Description** | **Key** | **Nulls** |
| Quiz | QuizID |  |  |  |
| Flashcard | FlashcardID |  |  |  |
| Dictionary | DictionaryID |  |  |  |
| Resource | ResourceID |  |  |  |
| Note | NoteID |  |  |  |
| User | UserID |  |  |  |
| Scholar | UserID |  |  |  |
| Educator | UserID |  |  |  |
| Classruum | ClassID |  |  |  |
| Foruum | ForumID |  |  |  |
| Comment | CommentID |  |  |  |