|  |  |
| --- | --- |
| **Person**(Account\_Type, Email, Username, Hashed\_Password, ClassID, Created)  **Primary Key** Username  **Foreign Key** ClassID *references* **Class**(ClassID)  **Alternate Key** Email | **Foruum**(ForumID, Creator, Forum\_Title, Closed, Created)  **Primary Key** ForumID  **Foreign Key** Creator *references* **Person**(Username) |
| **Resources**(Resource\_type, Resource\_code, Resource\_name, Creator, Privacy)  **Primary Key** ResourceCode  **Foreign Key** Creator *references* **Person**(Username) | **Comment**(CommentID, ForumID, Creator, Comment\_Content, Created)  **Primary Key** CommentID  **Foreign Key** ForumID *references* **Forum**(ForumID)  **Foreign Key** Creator *references* **Person**(Username) |
| **Class**(ClassID, EducatorID, Class\_Name)  **Primary Key** ClassID  **Foreign Key** EducatorID *references* **Person**(Username) |  |

**Logical tables**

**Physical tables**

**Person Table**

Domain Account\_Type Variable length string maximum length 8 // could just be fixed sized (E or S)

Domain Email\_Adress Variable length character string maximum length 50

Domain Username Variable length character string maximum length 30

Domain Password Variable length character string maximum length 50

Domain Clasruum Variable length character string maximum length 5 // could store as integer

Time\_Created TIMESTAMP

Person( Account\_Type Account\_Type NOT NULL

Email Email\_Address NOT NULL

Username Username NOT NULL

Hashed\_Password Password NOT NULL

ClassID Classruum NULL

Created Time\_Created NOT NULL

Primary Key Username

Alternate Key Email

Foreign Key ClassID references Class(ClassID)

**Resources Table**

Domain Resource\_Type Variable length string maximum length 10 // could just be fixed sized (Q, F OR N)

Domain Resource\_Code Variable length character string maximum length 6 //like Q1234 for a quiz

Domain Resource\_Name Variable length character string maximum length 30

Domain Owner Variable length character string maximum length 30

Domain Privacy Variable length character string max size 7 if public/private/shared //Alternatively call it public and use binary data type

Resources(Type Resource\_Type NOT NULL

Code Resource\_Code NOT NULL

Name Resource\_Name NOT NULL

Creator Owner NOT NULL

Privacy Privacy NOT NULL

Primary Key Code

Foreign Key Creator references Person(Username)

**Class Table**

Domain ClassID Variable length string maximum length 5 //C208

Domain ClassName Variable length character string maximum length 25 //Mr Carrol’s Class

Domain Owner Variable length character string maximum length 5

Class(ClassID ClassID NOT NULL

Class\_Name Name NOT NULL

EducatorID Owner NOT NULL

Primary Key ClassID

Foreign Key EducatorID references Person(Username)

**Foruum Table**

Domain ForumID Integer

Domain Forum\_Title Variable length character string maximum length 25

Domain Closed Binary

Domain Owner Variable length character string maximum length 30

Domain Time\_Created TimeStamp

Forum(ForumID Resource\_Type NOT NULL

Closed Closed NOT NULL

Creator Owner NOT NULL

Created Time\_Created NOT NULL

Forum\_Title Forum\_Title NOT NULL

Primary Key ForumID

Foreign Key Creator references Person(Username)

**Comment Table**

Domain CommentID Integer

Domain ForumID Integer

Domain Comment\_Content Variable length character string maximum length 300

Domain Owner Variable length character string maximum length 30

Domain Time\_Created TimeStamp

Comment(CommentID CommentID NOT NULL

ForumID ForumID NOT NULL

Content Comment\_Content NOT NULL

Creator Owner NOT NULL

Created Time\_Created NOT NULL

Primary Key CommentID

Foreign Key Creator references Person(Username)

Foreign Key ForumID references Forum(ForumID)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Username\* | email | Password | Account Type | Class Link | Resources |
| TylerBunsie | hmtylerb@hotmail.co.uk | \*\*\*\*\*\*\*\* | Scholar | null | [Q45,Q367,N4D34,D32] |
| Lachlan | lach@gmail.com | \*\*\*\*\*\*\* | Educator | www.studioruum.com/myclass/pont/join.html | [D32,Q64,D23,N76] |
| Pont | PontPont@liverpool.ac.uk | \*\*\*\*\*\*\*\*\*\*\*\* | Scholar | null | [23,65,87,23,76] |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Resource code | Creator | Privacy | Class | Mark | Comment | Rating | Completed |
| Q45 | TylerBunsie | public | null |  |  | 2.3 |  |
| N34 | Llllllyod | private | null |  |  | null |  |
| D12 | Jowdan | shared | C89 |  |  | 4.9 |  |

//mark, completed, comments, rating? Getting included as features on individual resources. Can probably be implemented in code and not required in database.

//can a resource belong to a class? Does being a scholar simply share your own selected resources with the classruum?

//user or person

//forumID v foruumID – naming consistencies across document

//does a forum belong to a classruum or to the public. If both is it necessary to have ClassID and possibly a privacy level in the forum table

//Unsure whether it is general practice to name foreign keys what they make sense to be in their table or make it as close to the record it is referencing as possible.