Class:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ClassID** | InstructorID | ClassName | ClassNum | semester | year |
|  |  |  |  |  |  |

Foreign Key:

InstructorID -> TidentityID(StudentAndFaculty)

CID: primary key for unique identity ID for each class

Assignment:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **AssigmentID** | CID | AName | RelatedText | Points | DueDate |
|  |  |  |  |  |  |

Foreign Key:

CID -> ClassID (Class)

AssignmentID: primary key for unique identity ID for each assignment

homework (relation between class and assignment):

|  |  |
| --- | --- |
| **AID** | **ClassID** |
|  |  |

Foreign keys:

AID -> AssignmentID (Assignment)

CID -> CIassID (Class)

StudentAndFaculty:

|  |  |  |  |
| --- | --- | --- | --- |
| **IdentityID** | **LoginID** | Fname | Lname |
| **TidentityID** | **TLoginID** | TFname | TLname |

Teaching Assistant (Weak Entity):

|  |  |  |
| --- | --- | --- |
| **TAID** | **TALoginID** | **CID** |
|  |  |  |

Foreign keys:

TAID -> IdentityID (Student)

TALoginID -> **LoginID (Student)**

CID -> ClassID (Class)

Teach: (relation between instructor and class)

|  |  |
| --- | --- |
| **TId** | **CID** |
|  |  |

Foreign keys:

**TId -> TID (instructor)**

CID -> CIassID (Class)

Score: (relation between class and student)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **StudentID** | **CID** | Assignment1Grade | Assignment2Grade | Assignment3Grade | Assignment4Grade | Assignment5Grade |
| Assignment6Grade | Assignment7Grade | Assignment8Grade | Assignment9Grade | Assignment10Grade | LetterScore |  |

Foreign keys:

StudentID -> IdentityID (Student)

CID -> ClassID (class)

Post:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **QuestionID** | CID | PosterID | Tag1 | Tag2 | PostDate |
|  |  |  |  |  |  |

Foreign keys:

CID -> ClassID (Class)

PosterID -> IdentityID., TidentityID (the identity number can be a student or instructor)

QID: primary key for unique identity ID for each question

Reply:

|  |  |  |  |
| --- | --- | --- | --- |
| **ReplyID** | QID | Date | Text |
|  |  |  |  |

Foreign keys:

QID -> QuestionID (Question)

ReplyID: primary key for unique identity ID for each reply

WriteQues: (relation between student and reply):

|  |  |
| --- | --- |
| **SID** | **RID** |
|  |  |

Foreign keys:

SID -> IdentityID (Student)

RID -> ReplyID (Reply)

PostQues: (relation between student and reply):

|  |  |
| --- | --- |
| **SID** | **QID** |
|  |  |

Answer: (relation between Ques and Reply):

|  |  |
| --- | --- |
| **RID** | **QID** |
|  |  |

Foreign keys

QID -> QuestionID(Question)

RID -> ReplyID (Reply)