|  |  |
| --- | --- |
| Table | Grade\_Tier |
| ER origin | Grade Tier Associative Entity |
| Primary key | Section, LetterGrade |
| Foreign keys | Section references Section |
|  | LetterGrade references Grade |
| Uniqueness constraint | Ranges cannot overlap |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Range | Req/Opt | Derived/Stored |
| Section | VARCHAR(5) | Non-empty | Required | Stored |
| LetterGrade | VARCHAR(2) | Non-empty | Required | Stored |
| LowPercentage | NUMERIC(5,2) | >=0 | Required | Stored |
| HighPercentage | NUMERIC(5,2) | >RangeLow | Required | Stored |

|  |  |
| --- | --- |
| Table | Grade |
| ER origin | Grade Table |
| Primary key | LetterGrade |
| Foreign keys | N/A |
|  |  |
| Uniqueness constraint | Each combination of LetterGrade and GPA should be unique |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Range | Req/Opt | Derived/Stored |
| LetterGrade | VARCHAR(2) | Non-empty | Required | Stored |
| GPA | NUMERIC(4,3) | Non-empty | Required | Stored |

|  |  |
| --- | --- |
| Table | Assessment\_Kind |
| ER origin | Assessment Kind |
| Primary key | Section, Name |
| Foreign keys | Section references Section |
|  |  |
| Uniqueness constraint | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Range | Req/Opt | Derived/Stored |
| Section | VARCHAR(5) | Non-empty | Required | Stored |
| Name | VARCHAR(20) | Non-empty | Required | Stored |
| Description | VARCHAR(100) |  | Optional | Stored |
| Weightage | NUMERIC(3,2) | >=0 | Required | Stored |

|  |  |
| --- | --- |
| Table | Assessment\_Item |
| ER origin | Assessment Item |
| Primary key | Section, Kind, AssessmentNumber |
| Foreign keys | Section references Section |
|  | Kind references Assessment\_Kind |
| Uniqueness constraint | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Range | Req/Opt | Derived/Stored |
| Section | VARCHAR (5) | Non-empty | Required | Stored |
| Kind | VARCHAR(20) | Non-empty | Required | Stored |
| AssessmentNumber | INTEGER | >0 | Required | Stored |
| Description | VARCHAR(100) |  | Optional | Stored |
| BasePoints | NUMERIC(5,2) | >=0 | Required | Stored |
| AssignedDate | DATE |  | Required | Stored |
| DueDate | DATE | >=AssignedDate | Required | Stored |
| RevealDate | DATE | >=AssignedDate | Optional | Stored |
| Curve | NUMERIC(3,2) |  | Required | Stored |

|  |  |
| --- | --- |
| Table | Submission |
| ER origin | Scores relationship |
| Primary key | Student, Section, Kind, AssessmentNumber |
| Foreign keys | Student references Enrollee |
|  | Section references Section |
|  | Kind references Assessment\_Item |
|  | AssessmentNumber references Assessment\_Item |
| Uniqueness constraint | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Range | Req/Opt | Derived/Stored |
| Student | INTEGER | >0 | Required | Stored |
| Section | VARCHAR(5) | Non-empty | Required | Stored |
| Kind | VARCHAR(20) | Non-empty | Required | Stored |
| AssessmentNumber | INTEGER | >=0 | Required | Stored |
| BasePointsEarned | NUMERIC(5,2) | >=0 | Required | Stored |
| ExtraCreditEarned | NUMERIC(5,2) | >=0 | Optional | Stored |
| Penalty | NUMERIC(5,2) | >=0 | Optional | Stored |
| CurvedGradeLetter | VARCHAR(2) |  | Required | Derived |
| CurvedGradePercent | NUMERIC(5,2) |  | Required | Derived |
| SubmissionDate | DATE | >=Assessment\_Item.HandoutDate | Required | Stored |
| Notes | VARCHAR(50) |  | Optional | Stored |