Leave Apply System

1. **student**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| studentNum | VARCHAR2(16) | N |  |  |
| studentName | VARCHAR2(64) | N |  |  |
| sex | VARCHAR2(2) | N |  |  |
| class | NUMBER(2) | N |  |  |
| password | VARCHAR2(50) | Y |  |  |

PK：studentNum

FK：no FK

1. **teacher**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| teacherNum | VARCHAR2(16) | N |  |  |
| teacherName | VARCHAR2(64) | N |  |  |
| sex | CHAR(2) | N |  |  |
| title | VARCHAR2(32) | Y |  |  |
| password | VARCHAR2(50) | Y |  |  |

PK：teacherNum

FK：no FK

1. **lesson**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| lessonNum | VARCHAR2(16) | N |  |  |
| lessonName | VARCHAR2(128) | N |  |  |
| year | CHAR(4) | Y |  |  |
| term | CHAR(2) | Y |  |  |
| credit | NUMBER(2) | Y |  |  |
| teacherNum | VARCHAR2(16) | N |  |  |
| beforeLessonNum | VARCHAR2(16) | Y |  |  |

PK：lessonNum

FK：teacherNum references teacher(teacherNum)

1. **stu\_choose\_lesson**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| studentNum | VARCHAR2(16) | N |  |  |
| lessonNum | VARCHAR2(16) | N |  |  |

PK：(studentNum，lessonNum) as composite primary key

FK：undetermined

1. **leave\_apply**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| applyNum | NUMBER(16) | N |  |  |
| applyTime | DATE | N |  |  |
| reason | VARCHAR2(128) | N |  |  |
| state | VARCHAR2(16) | N | “unchecked” |  |
| studentNum | VARCHAR2(16) | N |  |  |
| lessonNum | VARCHAR2(16) | N |  |  |
| teacherNum | VARCHAR2(16) | N |  |  |

PK：applyNum

FK：studentNum references student(studentNum)；

lessonNum references lesson(lessonNum)

teacherNum references teacher(teacherNum)

constraint：state constraint should be “unchecked” or “passed” or “failed”.

1. **message**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **type** | **Is null** | **default** | **unique** |
| messageNum | NUMBER(16) | N |  |  |
| content | VARCHAR2(128) | N |  |  |
| applyNum | VARCHAR2(16) | N |  |  |
| studentNum | VARCHAR2(16) | N |  |  |
| time | DATE | N |  |  |

PK：messageNum

FK：studentNum references student (studentNum)；

applyNum references leave\_apply (applyNum)；