1. Role

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| RoleId | INT | Y |  | Id |
| Role | NVARCHAR(20) |  |  | admin, auditor, respondent |

1. User

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| UserId | INT | Y |  | Id |
| UserName | NVARCHAR(20) |  |  |  |
| NickName | NVARCHAR(20) |  |  | Unique |
| UserRole | NVARCHAR(20) |  |  |  |
| PassWord | NVARCHAR(30) |  |  |  |
| CreateDate | DATETIME |  |  |  |
| Email | NVARCHAR(20) |  |  |  |
| Phone | NVARCHAR(20) |  |  |  |
| Sex | INT |  |  | 0:male,1:female |
| Birth | DATATIME |  |  |  |
| LastTimeLogOn | DATATIME |  |  |  |
| Credits | FLOAT |  |  | Game Points |

1. Question

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuestionId | INT | Y |  | Id |
| Question | NVARCHAR(256) |  |  | Content of question |
| CreatorId | INT |  | User\_id |  |
| Answer | NVARCHAR(20) |  |  | Right answer |

1. Options

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuestionId | INT | Y | QuestionId | Id |
| OptionId | INT |  |  | 0:A,1:B,2:C,3:D |
| OptionContent | NVARCHAR(256) |  |  | Question options |

1. Quiz

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuizId | INT | Y |  | Id |
| QuizName | NVARCHAR(20) |  |  |  |
| CreatorId | INT |  | User\_id |  |
| CreateDate | DATETIME |  |  |  |
| Duration | INT |  |  |  |

1. Question\_Quiz (in order to solve many to many problem)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuizId | INT | Y | Quiz\_Id | Id |
| QuestionId | INT |  | Question\_Id |  |

1. QuizInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuizId | INT | Y | Quiz\_Id | Id |
| UserId | INT |  | User\_id |  |
| Record | NVARCHAR(256) |  |  |  |
| StartTime | DATETIME |  |  |  |
| EndTime | DATETIME |  |  |  |
| SpareTime | FLOAT |  |  |  |

1. ScoreInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data Type | PK | FK | Comment |
| QuizId | INT | Y | Quiz\_Id | Id |
| UserId | INT |  | User\_id |  |
| Score | INT |  |  |  |