|  |  |  |
| --- | --- | --- |
|  | Administrator |  |
| Attribute | Type | Size |
| userName  password  recoveryPin  institute  userType  Designation | Varchar2  Varchar2  Number  Varchar2  Varchar2  Varchar2 | 50  15  4  50  20  50 |

|  |  |  |
| --- | --- | --- |
|  | Problem solver |  |
| Attribute | Type | Size |
| userName  password  recoveryPin  institute  userType  registrationNumber | Varchar2  Varchar2  Number  Varchar2  Varchar2  Varchar2 | 80  15  4  80  20  50 |

|  |  |  |
| --- | --- | --- |
|  | Problem |  |
| Attribute | Type | Size |
| problemID  contestID  problemName  timeLimit  questionFile  inputFile  solutionFile | Number  Number  Varchar2  Number  Varchar2  Varchar2  Varchar2 | 11  11  80  4  80  80  80 |

|  |  |  |
| --- | --- | --- |
|  | Submission |  |
| Attribute | Type | Size |
| submissionID  problemID  contestID  userName  submissionFile  compiler  timestamp  verdict | Number  Number  Number  Varchar2  Varchar2  Varchar2  Varchar2  TIMESTAMP | 20  11  80  4  80  80  80 |

|  |  |  |
| --- | --- | --- |
|  | Contest |  |
| Attribute | Type | Size |
| contestID  userName  contestName  startingTime  duration | Number  Varchar2  Varchar2 | 11  80  80 |

|  |  |  |
| --- | --- | --- |
|  | Participate |  |
| Attribute | Type | Size |
| userName  contestID  numberOfProblemSolved  timestamp | Varchar2  Number  Number  TIMESTAMP | 80  11  4 |