***Job\_Aspirants***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Aspirant\_ID | Integer | Primary key, surrogate key |
| Name | String | Not null |
| Date\_of\_birth | String | Nullable |

***Educational\_Qualifications***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| EQ\_ID | Integer | Primary key, surrogate key |
| Name\_of\_degree | String | Not null |
| Branch | String | Nullable |
| Year\_of\_passing | Integer | Not null |
| Institution\_name | String | Nullable |
| Marks | String | Nullable |
| Aspirant\_ID | Integer | Foreign key refers to Job\_Aspirants.Aspirant\_ID, Not null |

***Experience***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Exp\_ID | Integer | Primary key, surrogate key |
| Name\_of\_company | String | Not null |
| Number\_of\_years | Integer | Not null |
| Aspirant\_ID | Integer | Foreign key refers to Job\_Aspirants.Aspirant\_ID, Not null |

***Skills***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Skill\_ID | Integer | Primary key, surrogate key |
| Language | String | Not null |

***Aspirants\_Skills***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Aspirants\_skill\_ID | Integer | Primary key, surrogate key |
| Experience | Integer (in years) | Not null |
| Skill\_ID | Integer | Foreign key refers to Skills.Skill\_ID, composite key with Aspirant\_ID, not null |
| Aspirant\_ID | Integer | Foreign key refers to Job\_Aspirants.Aspirant\_ID, Not null, composite key with Skill\_ID, not null |

***Job\_Postings***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Posting\_ID | Integer | Primary key, surrogate key |
| Company\_name | String | Not null |
| Job\_code | String | Nullable |
| Job\_Description | String | Not null |
| Location | String | Not null |
| Openings | Integer | Not null |
| Qualifications | String | Nullable |
| Work\_experience | Integer (in years) | Nullable |

***Job\_Posting\_Skills***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| JPS\_ID | Integer | Primary key, surrogate key |
| Posting\_ID | Integer | Foreign key refers Job\_Postings.Posting\_ID, not null, composite key with Skill\_ID |
| Skill\_ID | Integer | Foreign key refers to Skills.Skill\_ID, composite key with Posting\_ID, not null |

***Contract\_Job***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Contract\_job\_ID | Integer | Primary key, foreign key refers to Job\_Postings.Posting\_ID, not null, surrogate key |
| Contract\_period | Integer (in months) | Not null |
| Security\_deposit | Integer | Not null |

***Applications***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Application\_ID | Integer | Primary key, Surrogate key |
| Posting\_ID | Integer | Foreign key refers Job\_Postings.Posting\_ID, not null, composite key with Aspirant\_ID |
| Aspirant\_ID | Integer | Foreign key refers to Job\_Aspirants.Aspirant\_ID, Not null, composite key with Posting\_ID, not null |

***Trainers***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Trainer\_ID | Integer | Primary key, Surrogate key |
| Name | String | Not null |
| Date\_of\_birth | String | Not null |

***Training\_Courses***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Course\_ID | Integer | Primary key, Surrogate key |
| Name | String | Not null |
| Description | String | Nullable |
| Duration | Integer (in hours) | Nullable |
| Cost | String | Nullable |
| Trainer\_ID | Integer | Foreign key refers Trainers.Trainer\_ID, nullable |

***Prerequisites***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Prereq\_ID | Integer | Primary key, Surrogate key |
| Skill\_ID | Integer | Foreign key refers to Skills.Skill\_ID, composite key with Course\_ID, not null |
| Course\_ID | Integer | Foreign key refers to Training\_Courses.Course\_ID, Not null, composite key with Skill\_ID,  not null |

***Trainers\_Skills***

|  |  |  |
| --- | --- | --- |
| **Name of column** | **Data type** | **Constraints** |
| Trainer\_Skill\_ID | Integer | Primary key, Surrogate key |
| Trainer\_ID | Integer | Foreign key refers Trainers.Trainer\_ID, not null, composite key with Skill\_ID |
| Skill\_ID | Integer | Foreign key refers Skills.Skill\_ID, not null, composite key with Trainer\_ID |
| Experience | Integer (in years) | Not null |