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| ***Database*** | Acaughey05(project2024) | ***Table Name*** | Project\_2024\_Candidates | ***(Composite)Key Field*** | CandidateID |

**Related to:**

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| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
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| **General table description:** |
| A table storing the details of each applicant applying for jobs |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| CandidateID | Y | Y | Y | Int | 11 | Auto-Increment | None | Uniquely identifies the identity of a candidate | An integer number e.g. 1, 20, 31 |
| FirstName | N | N | N | Varchar | 50 | None | NULL | Stores the first name of a candidate | A string in the form: ‘John’ ‘bob’ ‘Alice’ |
| LastName | N | N | N | Varchar | 50 | None | NULL | Stores a candidates surname. Separated from first name to make atomic. | A string in the form: ‘doe’, ‘Smith;, ‘cooper’ |
| Email | N | Y | Y | Varchar | 100 | [x@x.x](mailto:x@x.x)  where x is a string of characters of any length | NULL | Stores candidate email address indexed for efficient searching and unique to avoid multiple candidates sharing an email | A string in the form: ‘johndoe@example.com’ |
| Phone | N | N | N | Varchar | 20 | xxx-xxx-xxx  where x is digit (0-9) | NULL | Stores the mobile number of a candidate | A string in the form: 777-888-999 |
| IsActive | N | N | N | TinyInt | 1 | None | NULL | Stores if the candidate is currently active on the site at the time | Either a 0 or a 1 |

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| **Key:** | **R=Required** | | Y | (Yes – NOT NULL) | | N | (No) | |
|  | **I=Indexed** | | Y | (Yes – indexed) | | N | (Not indexed) | |
|  | **U=Unique** | | Y | Yes (Unique) | | N | (Not unique) | |
| ***Database*** | | Acaughey05(project 2024) | | | ***Table Name*** | | | Project\_2024\_Employers | | ***(Composite)Key Field*** | EmployerID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
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| **General table description:** |
| Holds the personal information of the employers posting job listings |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| EmployerID | Y | Y | Y | Int | 11 | AUTO-INCREMENT | None | Uniquely identifies the employers within the database | Integer value e.g. 1, 21, 40 |
| CompanyName | N | N | N | Varchar | 100 | None | NULL | Stores the name of the company the employer belongs to | String in the form of: ‘blue star inc’ |
| ContactName | N | N | N | Varchar | 100 | None | NULL | Stores the first name only of the employer | String in the form of: ‘John, Alice, bob’ |
| ContactSName | N | N | N | Varchar | 100 | None | NULL | Stores the last name of the employer separate from contact name to be atomic | String in the form of: ‘doe’, ‘Johnson’, ‘Martinez’ |
| Email | N | Y | Y | Varchar | 100 | [x@x.x](mailto:x@x.x)  where x is a string of characters of any length | NULL | Stores employer email address indexed for efficient searching and unique to avoid multiple employers sharing an email | A string in the form: ‘johndoe@example.com’ |
| Phone | N | N | N | Varchar | 20 | xxx-xxx-xxx  where x is digit (0-9) | NULL | Stores the mobile number of a employer | A string in the form: 777-888-999 |

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| **Key:** | **R=Required** | | Y | (Yes – NOT NULL) | | N | (No) | |
|  | **I=Indexed** | | Y | (Yes – indexed) | | N | (Not indexed) | |
|  | **U=Unique** | | Y | Yes (Unique) | | N | (Not unique) | |
| ***Database*** | | Acaughey05(project2024) | | | ***Table Name*** | | | Project\_2024\_Jobs | | ***(Composite)Key Field*** | JobID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Project\_2024\_Employers | EmployerID |  |  |
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| **General table description:** |
| A table storing the listings for all jobs and storing the ID of the employer hiring for the positions |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| JobID | Y | Y | Y | Int | 11 | AUTO-INCREMENT | None | Uniquely identifies the job listing | An integer number e.g. 3,60,48 |
| Title | N | N | N | Varchar | 100 | None | NULL | Stores the name of the position of the job listing | A string such as:  ‘software engineer’ |
| Description | N | N | N | Text | N/A | None | NULL | Stores a description of the job | A string such as: at this job you will carry out task such as……. |
| Requirements | N | N | N | Text | N/A | None | NULL | Stores a text block outlining job requirements and prerequisites | A string such as: this job will require………… |
| Salary | N | N | N | Decimal | (10,2) | The 2 in length formats to 2 d.p | NULL | Stores the annual salary of the job to 2 decimal places | A decimal such as: 80000.00 |
| EmployerID | Y | Y | N | Int | 11 | None | None | Stores the unique identifier for the employer the job is posted by | Integer value e.g. 1,17,21 |

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| **Key:** | **R=Required** | Y | (Yes – NOT NULL) | N | (No) |
|  | **I=Indexed** | Y | (Yes – indexed) | N | (Not indexed) |
|  | **U=Unique** | Y | Yes (Unique) | N | (Not unique) |

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| ***Database*** | Acaughey05(project 2024) | ***Table Name*** | Project\_2024\_Skills | ***(Composite)Key Field*** | SkillID |

**Related to:**

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| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
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| **General table description:** |
| Stores a list of skills candidates my put on their applications |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| SkillID | Y | Y | Y | Int | 11 | AUTO-INCREMENT | None | Uniquely identifies the skill in the table | Integer value e.g. 1,3,45 |
| SkillName | N | N | N | Varchar | 100 | None | NULL | Stores the name of the skill to be selected | String in the form of: ‘problem solving’ , ‘critical thinking’ |
| Description | N | N | N | Text | N/A | None | NULL | Stores a description of the skill | String in form: experience in the c# coding language commonly used for…. |

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| --- | --- | --- | --- | --- | --- |
| **Key:** | **R=Required** | Y | (Yes – NOT NULL) | N | (No) |
|  | **I=Indexed** | Y | (Yes – indexed) | N | (Not indexed) |
|  | **U=Unique** | Y | Yes (Unique) | N | (Not unique) |

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| ***Database*** | Acaughey05(project2024) | ***Table Name*** | Project\_2024\_CandidateSkills | ***(Composite)Key Field*** | CandidateID,SkillID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Project\_2024\_candidates | CandidateID | Project\_2024\_skills | SkillID |
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| **General table description:** |
| A link table to break the many to many relationship between candidates and skills |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| CandidateID | Y | Y | Y | Int | 11 | None | None | Uniquely identifies a candidate in the candidates table and forms part of the candidateskills composite key | Integer value e.g. 3,4,5 |
| SkillID | Y | Y | Y | Int | 11 | None | None | Uniquely identifies a skill in the skills table and forms part of the candidateskills composite key | Integer value e.g. 3,4,5 |
| Experience years | N | N | N | Int | 11 | Should be a feasible number 0-80 | none | Stores how long a specific candidate has been developing a certain skill e.g. java |  |

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| --- | --- | --- | --- | --- | --- |
| **Key:** | **R=Required** | Y | (Yes – NOT NULL) | N | (No) |
|  | **I=Indexed** | Y | (Yes – indexed) | N | (Not indexed) |
|  | **U=Unique** | Y | Yes (Unique) | N | (Not unique) |

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| ***Database*** | Acaughey05(project2024) | ***Table Name*** | Project\_2024\_Status | ***(Composite)Key Field*** | Status\_ID |

**Related to:**

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| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
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| **General table description:** |
| Stores a list of possible status an application can have |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Status\_ID | Y | Y | Y | Int | 11 | AUTO-INCREMENT | None | Uniquely identifies each status within the table | Integer value 1,2 or 3 |
| Status\_name | N | N | N | Varchar | 30 | None | NULL | Describes the status of an application | String in the form: ‘interview scheduled’, ‘pending review’ |

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| **Key:** | **R=Required** | Y | (Yes – NOT NULL) | N | (No) |
|  | **I=Indexed** | Y | (Yes – indexed) | N | (Not indexed) |
|  | **U=Unique** | Y | Yes (Unique) | N | (Not unique) |

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| --- | --- | --- | --- | --- | --- |
| ***Database*** | Acaughey05(project2024) | ***Table Name*** | Project\_2024\_Applications | ***(Composite)Key Field*** | ApplicationID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Project\_2024\_Candidates | Candidate\_ID | Project\_2024\_Jobs | JobID |
| Project\_2024\_Status | StatusID |  |  |

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| **General table description:** |
| Table links together candidates jobs and status to display the applications of a candidate to a certain job. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| ApplicationID | Y | Y | Y | Int | 11 | AUTO-INCREMENT | None | Uniquely identifies an application in the table | An integer value e.g. 1,10,13 |
| candidateID | Y | Y | N | Int | 11 | None | None | Foreign key linking to the candidates table storing the unique identifier for the candidate | An integer value e.g. 1,10,13 |
| JobID | Y | Y | N | Int | 11 | None | None | Foreign key linking to the jobs table storing the identifier for JobID | An integer value e.g. 1,10,13 |
| DateApplied | N | N | N | Date | N/A | None | None | Stores a date value to record the date of an applications submission | A date value e.g. 02/06/1998, 01/12/2004 |
| App\_status | Y | Y | N | Int | 11 | None | None | Foreign key linking to the status table | An integer value e.g. 1,10,13 |

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| **Key:** | **R=Required** | Y | (Yes – NOT NULL) | N | (No) |
|  | **I=Indexed** | Y | (Yes – indexed) | N | (Not indexed) |
|  | **U=Unique** | Y | Yes (Unique) | N | (Not unique) |