|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | jbothwell06 | ***Table Name*** | candidate | ***(Composite)Key Field*** | candidate\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
|  |  |  |  |
|  |  |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| candidate\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies a candidate | 5 |
| first\_name | Y | N | N | VARCHAR | 50 |  |  | The first name of a candidate | ‘Fred’ |
| last\_name | Y | N | N | VARCHAR | 50 |  |  | The last name of a candidate | ‘Jones’ |
| address\_line | Y | N | N | VARCHAR | 255 |  |  | The house number and street of a candidate’s address | ‘10 Woodland Heights’ |
| city | Y | N | N | VARCHAR | 100 |  |  | The city or town in which a candidate lives in | ‘Magherafelt’ |
| postal\_code | Y | N | N | VARCHAR | 7 |  |  | The postal code for a candidate’s address | ‘BT453GT’ |
| country | Y | N | N | VARCHAR | 50 |  |  | The country a candidate lives in | ‘Northern Ireland’ |
| email | Y | Y | Y | VARCHAR | 255 |  |  | The candidate’s email | ‘fredjones@gmail.com’ |
| contact\_number | Y | N | N | VARCHAR | 11 |  |  | The candidate’s mobile or home contact number | ‘07942750143’ |
| date\_of\_birth | Y | N | N | DATE |  |  |  | The date of birth of a candidate, used to determine their age | 2004-06-15 |
| registration\_date | N | N | N | TIMESTAMP |  |  | CURRENT\_TIMESTAMP | A timestamp of the date and time a candidate registered to the job portal | 2024-02-13 12:34:05 |
| currently\_seeking | Y | N | N | BOOLEAN |  |  |  | This is used to set the status of a candidate, either seeking for a job or not. This is useful for employers | 1 (Yes) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | job | ***(Composite)Key Field*** | job\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| sector | sector\_id | location | location\_id |
| employer | employer\_id |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| job\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies a job | 7 |
| job\_title | Y | Y | N | VARCHAR | 255 |  |  | The title of a job | ‘Software Engineer’ |
| job\_description | Y | N | N | VARCHAR | 255 |  |  | A brief description of what the job entails | ‘We’re looking for a Software Engineer with a strong background in C++’ |
| salary | N | Y | N | DECIMAL | 10,2 |  |  | The salary an employer is willing to pay someone | 55000.00 |
| date\_posted | Y | N | N | TIMESTAMP |  |  | CURRENT\_TIMESTAMP | A timestamp of when a job was posted | 2024-01-05 09:25:16 |
| closing\_date | Y | N | N | DATE |  |  |  | The closing date for any job applications to be sent in by | 2024-03-06 |
| sector\_id | Y | Y | N | INT |  |  |  | The sector the job is in | 3 |
| employer\_id | Y | Y | N | INT |  |  |  | The employer who posted the job | 6 |
| location\_id | Y | Y | N | INT |  |  |  | The location of the job | 2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | location | ***(Composite)Key Field*** | location\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
|  |  |  |  |
|  |  |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| location\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies a location | 12 |
| location\_name | Y | Y | N | VARCHAR | 255 |  |  | The name of a location | ‘Belfast’ |
| country | Y | Y | N | VARCHAR | 50 |  |  | The country of the location | ‘Northern Ireland’ |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | employer | ***(Composite)Key Field*** | employer\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| sector | sector\_id |  |  |
|  |  |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| employer\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies an employer | 3 |
| employer\_name | Y | Y | N | VARCHAR | 255 |  |  | The name of an employer | ‘Apple Inc.’ |
| employer\_description | Y | N | N | VARCHAR | 255 |  |  | A brief description about the employer, or their mission statement | ‘We aim to bring the best user experience to its customers through innovative hardware, software, and services’ |
| email | Y | Y | Y | VARCHAR | 255 |  |  | An email address used for inquiries about jobs | ‘careers@apple.com’ |
| contact\_number | Y | N | N | VARCHAR | 11 |  |  | A contact number used for inquiries about jobs | ‘02895037746’ |
| sector\_id | Y | Y | N | INT |  |  |  | The sector an employer is in | 8 |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | application | ***(Composite)Key Field*** | job\_id  candidate\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| job | job\_id |  |  |
| candidate | candidate\_id |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| job\_id | Y | Y | N | INT |  |  |  | A composite primary key that uniquely identifies an application | 5 |
| candidate\_id | Y | Y | N | INT |  |  |  | A composite primary key that uniquely identifies an application | 7 |
| application\_status | N | N | N | VARCHAR | 50 |  | ‘Pending’ | The status of a job application, either ‘Pending’, ‘Accepted’ or ‘Rejected’ | ‘Accepted’ |
| application\_date | Y | N | N | TIMESTAMP |  |  | CURRENT\_TIMESTAMP | A timestamp of when an application was submitted | 2024-02-26 14:05:16 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | sector | ***(Composite)Key Field*** | sector\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
|  |  |  |  |
|  |  |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| sector\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies a sector | 11 |
| sector\_name | Y | Y | Y | VARCHAR | 255 |  |  | The name of a job sector | ‘Information Technology’ |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | contract | ***(Composite)Key Field*** | contract\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
|  |  |  |  |
|  |  |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| contract\_id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | A primary key that uniquely identifies a job contract | 3 |
| contract\_name | Y | Y | Y | VARCHAR | 255 |  |  | The name of a job contract | ‘Permanent’ |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | jbothwell06 | ***Table Name*** | job\_contract | ***(Composite)Key Field*** | job\_id  contract\_id |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| job | job\_id |  |  |
| contract | contract\_id |  |  |

|  |
| --- |
| **General table description:** |
|  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| job\_id | Y | Y | N | INT |  |  |  | A composite primary key that uniquely identifies the job type of a job | 6 |
| contract\_id | Y | Y | N | INT |  |  |  | A composite primary key that uniquely identifies the type of contract of a job | 8 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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) |