|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | 40407187DM | ***Table Name*** | Awarder | ***(Composite)Key Field*** | AwarderID |

**Related to:**

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

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| **General table description:** |
| Contains only a name and a brief description of the awarder of a Qualification. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| AwarderID | Y | Y | Y | INT | - | - | - | Unique surrogate key for the table. | 1, 2, 3, 4 |
| AwarderName | Y | Y | Y | VARCHAR | 50 | - | - | Title of the awarding body | ‘CCEA’, ‘NICCEA’, ‘OCR’, ‘Queens University Belfast’ |
| AwarderDesc | Y | N | N | VARCHAR | 100 | - | - | Short description of the exam board | ‘A University in Belfast, Northern Ireland’, ‘A Secondary Education Exam Board in England’ |

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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*** | 40407187DM | ***Table Name*** | Business | ***(Composite)Key Field*** | BusinessID |

**Related to:**

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| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Industry | IndustryID | - | - |

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| **General table description:** |
| Contains the location, name and contact details of a company partnered with the recruitment agency. Each business must have at least one recruiter. Holds address, Business Name, Front Office Phone Number etc. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| BusinessID | Y | Y | Y | INT | - | - | - | Unique surrogate key for the table. | 1, 2, 3, 4 |
| BusinessName | Y | Y | N | VARCHAR | 30 | - | - | Name of the business | ‘Google’, ‘Amazon’ |
| BusinessAddress1 | Y | N | N | VARCHAR | 40 | - | - | Street name and house number of the Business | ‘3 Avenue Road, Hilltown’, ‘7 North Road, Craigavon’ |
| BusinessAddress2 | N | N | N | VARCHAR | 40 | - | - | Additional address information of the business | ‘Apartment 3’, ‘6th floor’ |
| BusinessPostcode | Y | N | N | VARCHAR | 8 | - | - | Post Code area of the business | ‘BT01 2HG’, ‘BT02 3JH’ |
| BusinessEmail | Y | N | N | VARCHAR | 50 | - | - | Email of the front desk of the business | ‘money@wearerich.com’, 'qub@ads.qub.ac.uk' |
| BusinessPhone  Number | Y | N | N | VARCHAR | 15 | - | - | Phone Number of the front desk of the business | '0234567891', '0456789123' |
| BusinessDescription | Y | N | N | VARCHAR | 100 | - | - | A short description of the business | 'An education institution offering too much coursework.' |
| IndustryID | Y | N | N | INT | - | - | - | Non-Unique integer which corresponds to an Industry register | 1, 2, 3 |

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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*** | 40407187DM | ***Table Name*** | Candidate | ***(Composite)Key Field*** | CandidateNationalInsuranceNumber |

**Related to:**

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

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| **General table description:** |
| Contains the personal details and contact information of a job-seeker entered into the database. Holds Address, Email, Name etc. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Candidate  National  Insurance  Number | Y | Y | Y | VARCHAR | 9 | - | - | A string of letters and numbers, unique to a candidate.  A unique natural key. | 'NI123462G', 'NI123461F', 'NI123456A' |
| Candidate  Forename | Y | N | N | VARCHAR | 30 | - | - | The Candidate’s first name. | 'Emma', 'Noah', 'Liam' |
| Candidate  Surname | Y | N | N | VARCHAR | 30 | - | - | The Candidate’s second name. | 'Wilson', 'Davis', 'Jones' |
| Candidate  Title | Y | N | N | VARCHAR | 10 | - | - | The Candidate’s title. | ‘Mr’, ‘Mrs’, ‘Dr.’ |
| Candidate  Gender | Y | N | N | VARCHAR | 20 | - | - | The Candidate’s gender. | ‘Male’, ‘Female’, ‘Other’ |
| Candidate  Address1 | Y | N | N | VARCHAR | 50 | - | - | Street name and house number of the Candidate | '321 Charlie Lane', '987 Delta Road' |
| Candidate  Address2 | N | N | N | VARCHAR | 50 | - | - | Additional address information of the Candidate | 'Unit 6D', 'Apt 4B' |
| Candidate  PostCode | Y | N | N | VARCHAR | 8 | - | - | The Post Code area of the Candidate | ‘BT01 2HG’, ‘BT02 3JH’ |
| CandidateEmail | Y | N | Y | VARCHAR | 50 | - | - | The email of the Candidate | 'liamwilson@gmail.com',  'janesmith@gmail.com' |
| CandidatePhoneNumber | Y | N | N | VARCHAR | 15 | - | - | The phone number of the Candidate | '9876543210', '1100223344' |
| Candidate  RightToWork | Y |  |  | BOOLEAN | - | - | - | Whether or not the Candidate has valid right to work in the country | TRUE, FALSE |
| Candidate  Disabled | Y |  |  | BOOLEAN | - | - | - | Whether or not the candidate is disabled, needed to reduce discrimination | TRUE, FALSE |

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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*** | 40407187DM | ***Table Name*** | CandidateJob\_Experience | ***(Composite)Key Field*** | NationalInsuranceNumber, Job\_ExperienceID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Candidate | NationalInsuranceNumber |  |  |
| Job\_Experience | Job\_ExperienceID |  |  |

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| **General table description:** |
| Contains the start and end date of the Candidate’s Job Experience, alongside why they left. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| National  Insurance  Number | Y | Y | Y | VARCHAR | 9 | - | - | A string of letters and numbers, unique to a candidate.  A unique natural key, corresponding to Candidate. | 'NI123462G', 'NI123461F', 'NI123456A' |
| Job\_ExperienceID | Y | Y | Y | INT | 0 | - | - | A foreign surrogate key corresponding to Job\_Experience. | 1, 2, 3 |
| CandidateJob\_  Experience  DateBegin | Y | N | N | DATE | - | - | - | The date that the job began. | '2021-05-04', '2023-06-01' |
| CandidateJob\_  Experience  DateEnd | Y | N | N | DATE | - | - | - | The date that the job ended. | '2021-05-04', '2023-06-01' |
| CandidateJob\_  Experience  ReasonFor  Leaving | N | N | N | VARCHAR | 100 | - | - | The optional reason for leaving. | 'Pay not high enough', 'Had to move house' |

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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*** | 40407187DM | ***Table Name*** | Industry | ***(Composite)Key Field*** | IndustryID |

**Related to:**

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

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| **General table description:** |
| Contains the location, name and contact details of a company partnered with the recruitment agency. Each business must have at least one recruiter. Holds address, Business Name, Front Office Phone Number etc. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| IndustryID | Y | Y | Y | INT | - | - | - | A unique surrogate key corresponding to Industry. | 1, 2, 3, 4 |
| IndustryName | Y | Y | N | VARCHAR | 30 | - | - | The name of the Industry. | 'Construction', 'Manufacturing', 'Manufacturing' |
| IndustryDesc | Y | N | N | VARCHAR | 100 | - | - | A short description of the Industry. | 'Industry involved in the management of money.’ |

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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*** | 40407187DM | ***Table Name*** | Interview | ***(Composite)Key Field*** | NationalInsuranceNumber, RecruiterID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Candidate | NationalInsuranceNumber |  |  |
| Recruiter | RecruiterID |  |  |

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| **General table description:** |
| Contains only a name and a brief description of an Industry. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| NationalInsuranceNumber | Y | Y | Y | VARCHAR | 9 | - | - | A string of letters and numbers, unique to a candidate.  A unique natural key, corresponding to Candidate. | 'NI123462G', 'NI123461F', 'NI123456A' |
| RecruiterID | Y | Y | Y | INT | - | - | - | A foreign surrogate key corresponding to Recruiter. | 1, 2, 3, 4 |
| InterviewRoom | Y | N | N | VARCHAR | 5 | - | - | The room number where the interview will take place | 'E505', 'A101', 'D303' |
| InterviewDate | Y | N | N | DATE | - | - | - | The date when the interview will take place | '2024-03-05', '2024-03-03' |
| InterviewTime | Y | N | N | TIME | - | - | - | The time when the interview will take place | '13:00:00', '16:00:00' |

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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*** | 40407187DM | ***Table Name*** | Job\_Experience | ***(Composite)Key Field*** | Job\_ExperienceID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Industry | IndustryID |  |  |
|  |  |  |  |

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| **General table description:** |
| Contains relevant details corresponding to a Candidate’s past experience in a working environment. Contains links to the job and its Industry. Holds the name of the job, and a foreign key corresponding to the Industry. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Job\_ExperienceID | Y | Y | Y | INT | - | - | - | A unique surrogate key for this table. | 1, 2, 3, 4 |
| Job\_ExperienceName | Y | N | N | VARCHAR | 20 | - | - | The name of the job. | 'Software Engineer', 'Marketing Manager' |
| Job\_ExperienceAvgSalary | Y | N | N | DECIMAL | - | - | - | The average salary in pounds of the Job\_Experience | 70000.00, 52000.00 |
| JobAvgHours | Y | N | N | DECIMAL | - | - | - | The average hours of the Job | 40.0, 37.0, 42.0 |
| IndustryID | Y |  | N | INT | - | - | - | A unique surrogate key for the table Industry. | 1, 2, 3, 4 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | 40407187DM | ***Table Name*** | Qualification | ***(Composite)Key Field*** | QualificationID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Awarder | AwarderID |  |  |

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| **General table description:** |
| Contains the name of the qualification, alongside a foreign key linking to the details of the awarder. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| QualificationID | Y | Y | Y | INT | - | - | - | A unique surrogate key corresponding to this table. | 1, 2, 3, 4 |
| Qualification  Name | Y | Y | N | VARCHAR | 50 | - | - | The name of the qualification | 'Master of Science in Chemistry', 'Bachelor of Engineering in Electrical Engineering' |
| AwarderID | Y | N | N | INT | - | - | - | A foreign surrogate key corresponding to Awarder. | 1, 2, 3, 4 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | 40407187DM | ***Table Name*** | QualificationCandidate | ***(Composite)Key Field*** | NationalInsuranceNumber. QualificationID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Candidate | NationalInsuranceNumber |  |  |
| Qualification | QualificationID |  |  |

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| **General table description:** |
| Contains the Grade and Date of Completion of the Qualification which a Candidate has achieved. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| National  Insurance  Number | Y | Y | Y | VARCHAR | 9 | - | - | A string of letters and numbers, unique to a candidate.  A unique natural key, corresponding to Candidate. | 'NI123462G', 'NI123461F', 'NI123456A' |
| QualificationID | Y | N | N | INT | - | - | - | A foreign surrogate key corresponding to Qualification. | 1, 2, 3, 4 |
| Qualification  Candidate  Grade | Y | Y | N | VARCHAR | 3 | - | - | The grade which the Candidate achieved for this Qualification | 1, 2-1, 2-2, A\*, B, C |
| Qualification  Candidate  DateOf  Completion | Y | N | N | DATE | - | - | - | The date which the Qualification was received. | '2020-05-03', '2021-05-04' |

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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*** | 40407187DM | ***Table Name*** | Recruiter | ***(Composite)Key Field*** | RecruiterID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Business | BusinessID |  |  |
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| **General table description:** |
| Contains the personal details and contact information of the recruiter who performs interviews on candidates. Holds Address, Email, Name etc. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| RecruiterID | Y | Y | Y | INT | - | - | - | A unique surrogate key which corresponds to this table. | 1, 2, 3, 4 |
| Recruiter  Forename | Y |  |  | VARCHAR | 30 | - | - | The Recruiter’s first name. | 'Emma', 'Noah', 'Liam' |
| Recruiter  Surname | Y |  |  | VARCHAR | 30 | - | - | The Recruiter’s  second name. | 'Wilson', 'Davis', 'Jones' |
| Recruiter  Title | Y |  |  | VARCHAR | 10 | - | - | The Recruiter’s  title. | ‘Mr’, ‘Mrs’, ‘Dr.’ |
| Recruiter  Gender | Y |  |  | VARCHAR | 20 | - | - | The Recruiter’s  gender. | ‘Male’, ‘Female’, ‘Other’ |
| Recruiter  Address1 | Y |  |  | VARCHAR | 50 | - | - | Street name and house number of the Recruiter | '321 Charlie Lane', '987 Delta Road' |
| Recruiter  Address2 | N |  |  | VARCHAR | 50 | - | - | Additional address information of the Recruiter | 'Unit 6D', 'Apt 4B' |
| Recruiter  PostCode | Y |  |  | VARCHAR | 8 | - | - | The Post Code area of the Recruiter | ‘BT01 2HG’, ‘BT02 3JH’ |
| RecruiterEmail | Y |  |  | VARCHAR | 50 | - | - | The email of the Recruiter | 'liamwilson@gmail.com',  'janesmith@gmail.com' |
| Recruiter  PhoneNumber | Y |  |  | VARCHAR | 15 | - | - | The phone number of the Recruiter | '9876543210', '1100223344' |
| BusinessID | Y | N | N | INT | - | - | - | A foreign surrogate key corresponding to Business. | 1, 2, 3, 4 |

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