|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | job | ***(Composite)Key Field*** | JobID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| interview | JobID |  |  |
| job\_applicants | JobID |  |  |

|  |
| --- |
| **General table description:** |
| This table shows the entities of job, Job Name (e.g. Software Engineer), when the job listing ends and the salary. BOOLEAN is used to detrmine whther a job is Remote. (1 for remote, 0 for not) |

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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 | 12 |  |  | Job Index number. Identifies each unique job. Used as foreign key to reference JobID, JobName, etc. | 1, 2, 3 |
| JobName | Y | N | N | VARCHAR | 100 |  |  | Name of Job | Data Engineer |
| JobPublishingDate | Y | Y | N | DATE | 12 | YYYY-MM-DD |  | Date of when the job was published | 2024-05-13 |
| JobEndingDate | Y | Y | N | DATE | 12 | YYYY-MM-DD |  | Date of when the job offers ends | 2024-07/10 |
| SectorID | N | N | N | VARCHAR | 100 |  |  | Foreign Key referencing SectorID, SectorName | Hospitality |
| Salary | Y | N | N | INT | 100 |  |  | Salary of job | £100,000 |
| RemoteJob | Y | N | N | BOOLEAN | 100 |  |  | Determines whether job is full time part-time | True, false |
| CompanyID | N | N | N | VARCHAR | 100 |  |  | Foreign Key referencing CompanyID, CompanyName | Rapid7 |
|  |  |  |  |  |  |  |  |  |  |

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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*** | ryaminali01 | ***Table Name*** | Sector | ***(Composite)Key Field*** | SectorID, SectorName |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| job | SectorID |  |  |
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| **General table description:** |
| Lists the sectors of a job. E.g. Software Engineer = 1 – Information Technology. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| SectorID | Y | Y | Y | INT | 12 |  |  | Sector Identification Number. serves as composite key includes Sector name. Only unique as a composite key and not on its own | 1, 2, 3 |
| SectorName | Y | N | N | VARCHAR | 100 |  |  | Name of Sector. Serves as a foreign key referencing SectorName and SectorID | Hospitality |
|  |  |  |  |  |  |  |  |  |  |
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| ***Database*** | ryaminali01 | ***Table Name*** | Company | ***(Composite)Key Field*** | CompanyID, Companyname |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| job | CompanyID |  |  |
| recruiter | CompanyID |  |  |

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| **General table description:** |
| Lists the companies that produce the jobs. Useful for logging which companies post certain jobs ie. Google will produce more IT jobs than Tesco. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| CompnayID | Y | Y | Y | INT | 12 |  |  | Company Identification Number, serves as composite key includes Sector name. Only unique as a composite key and not on its own | 1, 2, 3 |
| CompanyName | Y | N | N | VARCHAR | 100 |  |  | Name of Company. Serves as company name that includes CompnayID Is not unique on its own without composite key. Serves as forgein key that refernces CompanyName and CompanyID | Microsoft |
| CompanyAddress | Y | N | N | VARCHAR | 100 |  |  | Address of Company. | 19 Chichester St, Belfast BT1 4JB |
| CompanyPhone | Y | N | Y | INT | 12 |  |  | Phone Number of Company | 02891845672 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | Interview | ***(Composite)Key Field*** | InterviewID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| job | JobID | applicant | ApplicantID |
| recruiter | RecruiterID | applicant\_interview | InterviewID |

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| **General table description:** |
| Denotes what applicant is applying for what job and which recruiter is interviewing them. Uses a BOOLEAN for InterviewPass to determine whether an applicant has successfully passed the interview: 1 for pass, 0 for not pass. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| JobID | N | N | N | INT | 12 |  |  | Foreign key that serves as a refernce to JobID, JobName etc. Only Unique as a Composite key | 1, 2, 3 |
| ApplicantID | N | N | N | INT | 12 |  |  | Foreign Key that references ApplicantID, Appplicant FIrstName, LastName. Only Unique as a composite key | 1, 2, 3 |
| InterviewDate | Y | Y | N | DATE | 12 | YYYY-MM-DD |  | Date of Interview | 2024-10-24 |
| InterviewPass | Y | N | N | BOOLEAN | 4 |  | NULL | TRUE or FALSE whether an Applicant has passed or Failed | TRUE |
| RecruiterID | N | N | N | INT | 12 |  |  | Foreign Key as a reference to RecruiterID, RecruiterFirstName, RecuiterLastName | 1, 2, 3 |
| InterviewID | Y | Y | Y | INT | 12 |  |  | Primary key of table. Identifies each unquie interview number | 1, 2, 3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | recruiter | ***(Composite)Key Field*** | RecruiterID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| interview | RecruiterID | company | CompanyID |
| recruiter\_applicants | RecruiterID |  |  |

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| **General table description:** |
| Lists information of recruiter for interview and what company they represent. |

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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 | 12 |  |  | Recruiter Identification Number, s. Acts as foreign key in other tables | 1, 2, 3 |
| RecruiterFirstName | Y | N | N | VARCHAR | 100 |  |  | Recruiter First Name | Simon |
| RecruiterLastName | Y | N | N | VARCHAR | 100 |  |  | Recruiter Last Name | Adams |
| RecruiterEmail | Y | N | N | VARCHAR | 100 |  |  | Email of Recruiter | simonadams@gmail.com |
| RecruiterPhone | Y | N | Y | int | 12 |  |  | Recruiter Phone Number | 023667982 |
| CompanyID | N | N | N | VARCHAR | 100 |  |  | Foreign key referencing CompanyName, CompanyID | Microsoft |
|  |  |  |  |  |  |  |  |  |  |

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| ***Database*** | ryaminali01 | ***Table Name*** | applicant | ***(Composite)Key Field*** | ApplicantID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| interview | ApplicantID | applicant\_interview | ApplicantID |
| recruiter\_applicant | ApplicantID |  |  |

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| **General table description:** |
| Lists applicant information and contains their CV or resume as a BLOB. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| ApplicantID | Y | Y | Y | INT | 12 |  |  | Applicant Identification Number. Is prfimary key and ascts as foregin key in other tables. | 1, 2, 3 |
| ApplicantFirstName | Y | N | N | VARCHAR | 100 |  |  | Applicant First Name | John |
| ApplicantLastName | Y | N | N | VARCHAR | 100 |  |  | Applicant Last Name | Smith |
| ApplicantEmai | Y | N | Y | VARCHAR | 100 |  |  | Applicant Email | Johnsmith@gmail.com |
| ApplicantNumber | Y | N | Y | INT | 12 |  |  | Applicant Phone Number | 012367982 |
| ApplicantDocuments | Y | N | Y | BLOB |  |  |  | Documents of applicants i.e. CV | CV.pdf |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | recruiter\_applicants | ***(Composite)Key Field*** | RecAppJunctionID, RecruiterID, ApplicantID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Interview | ApplicantID |  |  |
|  | RecruiterID |  |  |

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| **General table description:** |
| Junction table in between recruiter and applicant tables, resolving their many-to-many relationship. |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| RecAppJunctionID | Y | Y | Y | INT | 12 |  |  | Index of Junction key between Recruiter and Applicant table. Is part of Composite key and is not nunique on its own. | 1, 2, 3 |
| ApplicantID | N | N | N | INT | 12 |  |  | Foreign key used in other tables. Part of composite key and is not unique on its own. | 1, 2, 3 |
| RecruiterID | N | N | N | INT | 12 |  |  | ForeignKey used in other tables Part of composite key and is not used on its own | 1, 2, 3 |
|  |  |  |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | job\_applicants | ***(Composite)Key Field*** | JobAppJunctiomKey JobID, ApplicantID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Interview | ApplicantID | Job | JobID |
|  | JobID | applicant | ApplicantID |

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| --- |
| **General table description:** |
| Junction table in between jobs and applicant tables, resolving their many-to-many relationship. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| JobAppJunctionID | Y | Y | Y | INT | 12 |  |  | Index of Junction key between Recruiter and Applicant table. Is part of Composite key and is not nunique on its own. | 1, 2, 3 |
| ApplicantID | N | N | N | INT | 12 |  |  | Foreign key used in other tables. Part of composite key and is not unique on its own. | 1, 2, 3 |
| jobID | N | N | N | INT | 12 |  |  | Foreign Key used in other tables Part of composite key and is not used on its own | 1, 2, 3 |
|  |  |  |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- |
| ***Database*** | ryaminali01 | ***Table Name*** | Applicant\_interview | ***(Composite)Key Field*** | AppInterJunctionID |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Interview | ApplicantID | Applicant | ApplicantID |
|  | interviewID | interview | interviewID |

|  |
| --- |
| **General table description:** |
| Junction table in between jobs and applicant tables, resolving their many-to-many relationship. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| AppInterJunctionID | Y | Y | Y | INT | 12 |  |  | Index of Junction key between interview and Applicant table. Is part of Composite key and is not unique on its own. | 1, 2, 3 |
| ApplicantID | N | N | N | INT | 12 |  |  | Foreign key used in other tables. Part of composite key and is not unique on its own. | 1, 2, 3 |
| InterviewID | N | N | N | INT | 12 |  |  | Foreign Key used in other tables Part of composite key and is not used on its own | 1, 2, 3 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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