|  |  |  |  |  |  |
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| ***Database*** | lchartier01 | ***Table Name*** | L\_Company | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The Companies the Candidates will be hired by |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The company’s registration number. It’s the Primary key to uniquely identify each company. | 6 |
| Name | Y | Y | N | VARCHAR | 255 |  |  | The company’s name | Microsoft |
| PhoneNo | Y | N | N | VARCHAR | 15 |  |  | The phone number of the company | 07123456789 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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*** | lchartier01 | ***Table Name*** | L\_Sector | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The sectors of the jobs |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The sector’s registration number. It’s the Primary key to uniquely identify each sector. | 6 |
| Name | Y | Y | N | VARCHAR | 255 |  |  | The sector’s name | Tech |

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| ***Database*** | lchartier01 | ***Table Name*** | L\_Contract | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The different contract types of jobs |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The contract’s registration number. It’s the Primary key to uniquely identify each contract. | 6 |
| Name | Y | Y | N | VARCHAR | 255 |  |  | The contract’s name | Full-time |

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| ***Database*** | lchartier01 | ***Table Name*** | L\_ Remote | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The type of remoteness of the job |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The remote type’s registration number. It’s the Primary key to uniquely identify each remote type. | 6 |
| Name | Y | Y | N | VARCHAR | 255 |  |  | The remote type’s name | Full-time |

|  |  |  |  |  |  |
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| ***Database*** | lchartier01 | ***Table Name*** | L\_ Skill | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The skills of the candidates and required by jobs |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The skill’s registration number. It’s the Primary key to uniquely identify each skill. | 6 |
| Name | Y | Y | N | VARCHAR | 255 |  |  | The skill’s name | Problem solving |

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| ***Database*** | lchartier01 | ***Table Name*** | L\_Candidate | ***(Composite)Key Field*** |  |

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| **General table description:** |
| The candidates that are looking for jobs |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The candidate’s registration number. It’s the Primary key to uniquely identify each candidate. | 6 |
| FirstName | Y | Y | N | VARCHAR | 255 |  |  | The first name of the candidate | John |
| Surname | Y | Y | N | VARCHAR | 255 |  |  | The surname of the candidate | Smith |
| Address | Y | Y | N | VARCHAR | 255 |  |  | The address of the candidate | 16 Malone Rd |
| City | Y | Y | N | VARCHAR | 255 |  |  | The city of the candidate | Belfast |
| Country | Y | Y | N | VARCHAR | 255 |  |  | The country of the candidate | United Kingdom |
| Postcode | N | N | N | VARCHAR | 15 |  |  | The postcode of the candidate | BT9 5BN |
| DoB | Y | Y | N | DATE |  |  |  | The birthday of the candidate | 2005-2-2 |
| Email | Y | N | N | VARCHAR | 255 |  |  | The email of the candidate | lcharteir01@qub.ac.uk |
| PhoneNo | N | N | N | VARCHAR | 15 |  |  | The phone number of the candidate | 07123456789 |
| CV | Y | N | N | LONGTEXT |  |  |  | The CV of the candidate | Hello |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | lchartier01 | ***Table Name*** | L\_Office | ***(Composite)Key Field*** |  |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Company | CompanyId |  |  |

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| --- |
| **General table description:** |
| The Offices of the company |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The office’s registration number. It’s the Primary key to uniquely identify each office. | 6 |
| CompanyId | Y | Y | N | INT |  |  |  | Foreign key referencing Company.Id | 5 |
| PhoneNo | Y | N | N | VARCHAR | 15 |  |  | The phone number of the office | 07123456789 |
| Address | Y | Y | N | VARCHAR | 255 |  |  | The address of the office | 16 Malone Rd |
| City | Y | Y | N | VARCHAR | 255 |  |  | The city of the office | Belfast |
| Country | Y | Y | N | VARCHAR | 255 |  |  | The country of the office | United Kingdom |
| Postcode | N | N | N | VARCHAR | 15 |  |  | The postcode of the office | BT9 5BN |

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| ***Database*** | lchartier01 | ***Table Name*** | L\_Employee | ***(Composite)Key Field*** |  |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Office | OfficeId |  |  |

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| **General table description:** |
| The employees working in the office |

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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The employee’s registration number. It’s the Primary key to uniquely identify each employee. | 6 |
| OfficeId | Y | Y | N | INT |  |  |  | Foreign key referencing Office.Id | 5 |
| FirstName | Y | Y | N | VARCHAR | 255 |  |  | The first name of the employee | John |
| Surname | Y | Y | N | VARCHAR | 255 |  |  | The surname of the employee | Smith |
| Address | Y | Y | N | VARCHAR | 255 |  |  | The address of the employee | 16 Malone Rd |
| City | Y | Y | N | VARCHAR | 255 |  |  | The city of the employee | Belfast |
| Country | Y | Y | N | VARCHAR | 255 |  |  | The country of the employee | United Kingdom |
| Postcode | N | N | N | VARCHAR | 15 |  |  | The postcode of the employee | BT9 5BN |
| DoB | Y | Y | N | DATE |  |  |  | The birthday of the employee | 2005-2-2 |
| FullTime | Y | Y | N | BOOLEAN |  |  |  | The contract type of the employee (True = Full-time, False = Part-Time) | true |
| Email | Y | N | Y | VARCHAR | 255 |  |  | The email of the employee | lcharteir01@qub.ac.uk |
| PhoneNo | Y | N | Y | VARCHAR | 15 |  |  | The phone number of the employee | 07123456789 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | lchartier01 | ***Table Name*** | L\_Job | ***(Composite)Key Field*** |  |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Office | OfficeId | Sector | SectorId |
| Employee | EmployeeId | Contract | ContractId |
| Remote | RemoteId |  |  |

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| **General table description:** |
| The jobs the office need candidates for |

|  |  |  |  |  |  |  |  |  |  |
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| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The job’s registration number. It’s the Primary key to uniquely identify each job. | 6 |
| OfficeId | Y | Y | N | INT |  |  |  | Foreign key referencing Office.Id | 5 |
| EmployeeId | Y | Y | N | INT |  |  |  | Foreign key referencing Employee.Id | 5 |
| SectorId | Y | Y | N | INT |  |  |  | Foreign key referencing Sector.Id | 5 |
| ContractId | Y | Y | N | INT |  |  |  | Foreign key referencing Contract.Id | 5 |
| RemoteId | Y | Y | N | INT |  |  |  | Foreign key referencing Remote.Id | 5 |
| Title | Y | Y | N | VARCHAR | 255 |  |  | The name of the job | John |
| DatePosted | Y | Y | N | DATETIME |  |  |  | The job’s date posted | 2005-2-2 12:00:00 |
| Salary | Y | Y | N | DOUBLE |  |  |  | The salary initial given for the job | 30000.00 |
| ExpiryDate | Y | N | N | DATETIME |  |  |  | The date the job will not be available to apply for | 2025-1-1 12:00:00 |
| Description | Y | N | N | LONGTEXT |  |  |  | The description of the job | Please |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | lchartier01 | ***Table Name*** | L\_ Application | ***(Composite)Key Field*** |  |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Candidate | Candidate Id | Contract | ContractId |
| Remote | RemoteId | Job | JobId |

|  |
| --- |
| **General table description:** |
| The application made by the candidate |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| Id | Y | Y | Y | INT |  | AUTO\_INCREMENT |  | The application’s registration number. It’s the Primary key to uniquely identify each application. | 6 |
| JobId | Y | Y | N | INT |  |  |  | Foreign key referencing Job.Id | 5 |
| CandidateId | Y | Y | N | INT |  |  |  | Foreign key referencing Candidate.Id | 5 |
| DesiredContractId | Y | Y | N | INT |  |  |  | The type of contract the candidate wants. Foreign key referencing Contract.Id | 5 |
| DesiredRemoteId | Y | Y | N | INT |  |  |  | The type of remoteness the candidate wants. Foreign key referencing Remote.Id | 5 |
| ApplicationDate | Y | Y | N | DATETIME |  |  |  | The date of application creation | 2024-4-5 12:00:00 |
| DesiredSalary | Y | Y | N | DOUBLE |  |  |  | The salary the candidate asks for in the application | 100000.00 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | lchartier01 | ***Table Name*** | L\_JobSkill | ***(Composite)Key Field*** | *(JobId, SkillId)* |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Skill | SkillId | Job | JobId |

|  |
| --- |
| **General table description:** |
| The link table between skills and jobs |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| JobId | Y | Y | N | INT |  |  |  | The job the skill is required in. Only unique as a composite key and not on its own | 1 |
| SkillId | Y | Y | N | INT |  |  |  | The skill the job needs. Only unique as a composite key and not on its own | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Database*** | lchartier01 | ***Table Name*** | L\_CandidateSkill | ***(Composite)Key Field*** | (CandidateId, SkillId) |

**Related to:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Table Name*** | ***Foreign Key*** | ***Table Name*** | ***Foreign Key*** |
| Skill | SkillId | Candidate | CandidateId |

|  |
| --- |
| **General table description:** |
| The link table between skills and candidates |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Field Name*** | ***R*** | ***I*** | ***U*** | ***Data Type*** | ***Length*** | ***Format Rule(s)*** | ***Default Value*** | ***Description*** | ***Typical Data*** |
| CandidateId | Y | Y | N | INT |  |  |  | The candidate that has the skill. Only unique as a composite key and not on its own | 1 |
| SkillId | Y | Y | N | INT |  |  |  | The skill the candidate has. Only unique as a composite key and not on its own | 1 |