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| **“region” table** (stores details about regions) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| region\_id | TINYINT | NOT NULL | PK | IDENTITY |
| region\_name | VARCHAR(25) | NOT NULL | UNIQUE |  |

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| **“country” table** (stores details about countries) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| country\_id | CHAR(2) | NOT NULL | PK |  |
| country\_name | VARCHAR(50) | NOT NULL | UNIQUE |  |
| region\_id | TINY | NOT NULL | FK (region.region\_id) |  |

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| **“location” table** (stores details about locations) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| location\_id | SMALLINT | NOT NULL | PK | IDENTITY |
| street\_address | VARCHAR(50) | NOT NULL |  |  |
| postal\_code | VARCHAR(15) | NOT NULL |  |  |
| city | VARCHAR(30) | NOT NULL |  |  |
| state\_province | VARCHAR(25) | NOT NULL |  |  |
| country\_id | CHAR(2) | NOT NULL | FK (country.country\_id) |  |

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| **“job” table** (stores details about jobs) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| job\_id | VARCHAR(10) | NOT NULL | PK |  |
| job\_title | VARCHAR(50) | NOT NULL | UNIQUE |  |
| min\_salary | MONEY | NOT NULL |  | DEFAULT 1000 |
| max\_salary | MONEY | NULL | CHECK (max\_salary > min\_salary) |  |

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| **“department” table** (stores details about departments) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| department\_id | SMALLINT | NOT NULL | PK | IDENTITY(10, 10) |
| department\_name | VARCHAR(25) | NOT NULL |  |  |
| manager\_id | INT | NULL | FK (employee.employee\_id) |  |
| location\_id | SMALLINT | NOT NULL | FK (location.location\_id) |  |

*Note that the manager\_id FK constraint will need to be created after the department and employee tables have been created and populated.*

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| **“employee” table** (stores details about employees) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| employee\_id | INT | NOT NULL | PK | IDENTITY |
| first\_name | VARCHAR(25) | NOT NULL |  |  |
| last\_name | VARCHAR(25) | NOT NULL |  |  |
| gender | CHAR(1) | NULL | CHECK (gender IN ('M' OR 'F')) |  |
| email | VARCHAR(25) | NOT NULL | UNIQUE |  |
| phone\_number | VARCHAR(20) | NOT NULL |  |  |
| hire\_date | DATE | NULL |  |  |
| job\_id | VARCHAR(10) | NOT NULL | FK (job.job\_id) |  |
| salary | MONEY | NOT NULL | CHECK (salary > 0) |  |
| commission\_pct | NUMERIC(2,2) | NULL |  |  |
| manager\_id | INT | NULL | FK (employee.employee\_id) |  |
| department\_id | SMALLINT | NULL | FK (department.department\_id) |  |

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| **“job\_history” table** (stores details about prior jobs held by employees in the company) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| employee\_id | INT | NOT NULL | PK |  |
| start\_date | DATE | NOT NULL |  |  |
| end\_date | DATE | NOT NULL | CHECK (end\_date > start\_date) |  |
| job\_id | VARCHAR(10) | NOT NULL | FK (job.job\_id) |  |
| department\_id | SMALLINT | NULL | FK (department.department\_id) |  |

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| **“job\_grade” table** (stores details about the grade levels used by the company) | | | | |
| **Column Name** | **Data Type & Length** | **Null** | **Constraints** | **Other** |
| grade\_level | CHAR(1) | NOT NULL | PK |  |
| lowest\_sal | MONEY | NOT NULL |  |  |
| highest\_sal | MONEY | NOT NULL | CHECK (highest\_sal > lowest\_sal) |  |