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| **Entity Type: EQUIPMENT** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| EquipmentID | CHAR(10) | Required | 545 |
| ProjectID | CHAR(15) | Required | 0089 |
| VendorID | CHAR(10) | Required | 112 |
| EquipmentDescription | CHAR(20) | Optional | Database Server |
| EquipmentQuantity | INTEGER | Required | 1 |
| EquipmentCost | CURRENCY | Required | $10.00 |

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| --- | --- | --- | --- |
| **Entity Type: DEPARTMENTS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| DepartmentID | CHAR(10) | Required | 1168 |
| DepartmentName | CHAR(15) | Required | IT Department |
| DepartmentLocation | CHAR(15) | Required | Toronto, CA |
| DepartmentFloor | INTEGER | Optional | 4 |

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| --- | --- | --- | --- |
| **Entity Type: VENDORS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| VendorID | CHAR(10) | Required | 112 |
| VendorName | CHAR(10) | Required | George Brown |
| VendorAddresss | CHAR(15) | Optional | Toronto, CA |

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| --- | --- | --- | --- |
| **Entity Type: SKILLS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| SkillID | CHAR(10) | Required | 897 |
| SkillDescription | TEXT(100) | Optional | C# Programmer |
| EmployeeID | CHAR(10) | Required | 100962928 |

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| --- | --- | --- | --- |
| **Entity Type: CLIENTS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| ClientID | CHAR(10) | Required | 766 |
| ClientName | CHAR(10) | Required | Ali Baba |
| ClientAddress | CHAR(15) | Optional |  |

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| --- | --- | --- | --- |
| **Entity Type: TASKS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| TaskID | CHAR(10) | Required | 221 |
| RequiredSkillID | CHAR(10) | Required | 897 |
| TaskDescription | TEXT(100) | Optional | Install Operating System |

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| --- | --- | --- | --- |
| **Entity Type: PROJECTS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| ProjectID | CHAR(10) | Required | 0089 |
| ClientID | CHAR(10) | Required | 333 |
| ProjectName | CHAR(10) | Required | ERP Implementation |
| ProjectManager | CHAR(10) | Optional | Sahra Osman |
| TaskID | CHAR(10) | Required | 221 |
| TaskStartDate | DATETIME | Optional | 10/10/10 |
| TaskEndDate | DATETIME | Optional | 10/10/11 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity Type: EMPLOYEES** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| EmployeeID | CHAR(10) | Required | 100962928 |
| DepartmentID | CHAR(10) | Required | IT Department |
| SkillID | CHAR(10) | Required | 101 |
| EmployeeName | CHAR(10) | Required | Osman |
| EmployeeAddress | CHAR(15) | Optional | Mississauga, CA |
| EmployeeBirthDate | DATETIME | Optional | 04/11/95 |
| EmployeeSIN# | INTEGER | Required | 123456789 |
| EmployeeType | CHAR(1) | Required | S |
| AnnualSalary | CURRENCY | Optional | $100,000 |
| HealthCoverage | CHAR(1) | Optional | Y |
| HourlyRate | CURRENCY | Required | 25 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity Type: EMPLOYEE DEPENDANTS** | | | |
| **Attributes** | **Attribute Data Type** | **Required Or Optional** | **Example Instance** |
| DepartmentID | CHAR(10) | Required | IT Department |
| EmployeeID | CHAR(10) | Required | 101 |
| DependantName | CHAR(10) | Required | Bashir |
| DependantAddress | CHAR(15) | Optional | Mississauga, ON |
| DependantBirthDate | DATETIME | Optional | 10/10/10 |
| DependantSIN# | INTEGER | Required | 123456798 |