|  |  |  |  |
| --- | --- | --- | --- |
| **ENTITY** | **RELATIONSHIOP** | **CONNECTIVITY** | **ENTITY** |
| CANDIDATE | has | 0:M | JOB\_HISTORY |
| CANDIDATE | earns | 1:M | QUALIFICATION |
| QUALIFICATION | earned by | 1:M | CANDIDATE |
| COURSE | develops | 0:1 | QUALIFICATION |
| QUALIFICATION | developed by | 1:M | COURSE |
| COURSE | has a prerequisite | 0:M | QUALIFICATION |
| QUALIFICATON | has a prerequisite | 0:M | COURSE |
| SESSION | presents | 1:M | COURSE |
| COURSE | presented by | 0:M | SESSION |
| SESSION | accommodate | 1:M | CANDIDATE |
| CANDIDATE | be registered for | 0:M | SESSION |
|  |  |  |  |
| OPENING | created by | 1:1 | COMPANY |
| OPENING | require | 1:1 | QUALIFICATIONS |
|  |  |  |  |
| PLACEMENT | created by | 1:1 | OPENING |
| PLACEMENT | assigned to | 1:1 | CANDIDATE |
| PLACEMENT | inserts an entry | 1:1 | JOB\_HISTORY |
|  |  |  |  |
| OPENING | filled by | 1:M | CANDIDATE |
| CANDIDATE | can fill | 1:M | OPENING |
|  |  |  |  |

JOB\_HISTORY is OPTIONAL to CANDIDATE

CANDIDATE is MANDATORY for JOB\_HISTORY ( candidate has to work to create some job history )

QUALIFICATION is OPTIONAL to CANDIDATE ( candidate may not have the qualification )

CANDIDATE is OPTIONAL to QUALIFICATION ( qualification does not require a candidate )

**COMPANY, OPENING, QUALIFICATION, CANDIDATE, JOB\_HISTORY, PLACEMENT, COURSE, and SESSION**

OPENING – opening number(pk), company name, required qualifications, starting date, anticipated end date, hourly pay

PLACEMENT – opening number, candidate number, total hours worked