|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity 1 | Number Constraints | Relationship | Number Constraints | Entity 2 |
| User | <= 0 | Post | =1 | Reference |
| Reference | =1 | Recommend | <=0 | Job Seeker |
| Job Seeker | <=0 | Apply | <=0 | Job |
| Job Seeker | <=0 | Post | =1 | Resume |
| Resume | <=0 | Have | <=0 | Skills |
| Employer | <=0 | Post | =1 | Jobs |
| Resume | <=0 | Worked | <=0 | Employer |
| Job | <=0 | Requires | <=0 | Skills |

Weak entities

|  |  |
| --- | --- |
| Resume | Rely on Job seeker |
| Job | Rely on Employer |
| Skills | Rely on Job or Resume |
|  |  |
|  |  |
|  |  |
|  |  |

Skills won’t be the weak entities. This will be prepopulated or added periodically thus the end user can use it. Otherwise it will be overblown and will be extremely difficult to match each other. I also removed some attributes from the skills as well. To simplify the match process later.