**Hasnain Attarwala**

**Z1697740**

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principlePerson

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | fname | lname | dob | address | phone |
| 123456789 | Hasu | Attu | 08/08/2000 | 123 main st dekalb IL 60115 | 312-123-0000 |

movie

|  |  |  |  |
| --- | --- | --- | --- |
| id | Title | genre | year |
| 1112223 | Govt sucks | Documentery | 1999 |

location

|  |  |
| --- | --- |
| name | continent |
| California | North America |

Company

|  |  |  |
| --- | --- | --- |
| name | address | phone |
| Dekalb productions | 1212 main st | 213-111-1111 |

director

|  |  |
| --- | --- |
| id | pastMovies |
| 121299 | Kal ho na ho |

actor

|  |  |
| --- | --- |
| id | ethnicity |
| 111211 | South Asian |

author

|  |  |
| --- | --- |
| id | scripts |
| 111222 | Three idiots |

producer

|  |  |
| --- | --- |
| id | movieProduced |
| 123456 | North America |

writes

|  |  |
| --- | --- |
| id | salary |
| 121299 | $10000 |

produces

|  |  |
| --- | --- |
| id | salary |
| 121299 | $12000 |

ifFilmedIn

|  |  |  |
| --- | --- | --- |
| Id | name | year |
| Dekalb productions | California | 2010 |

owns

|  |  |  |
| --- | --- | --- |
| id | name | purchaseDate |
| 989899 | Dekalb Productions | 08/02/2012 |

directs (id, title, salary)

|  |  |  |
| --- | --- | --- |
| movieId | DirectorId | salary |
| 9898991 | 11122232 | $43000 |

actsIn (id, title, salary)

|  |  |  |
| --- | --- | --- |
| actorID | movieID | Salary |
| 989899 | Dekalb Productions | $122333 |

//Extra Notes

step 1 - strong entities, not subtypes

principlePerson (id, fname, lname, dob, address, phone)

movie (title, genre, year)

location (name, continent)

company (name, address, phone)

/\*ENTITES\*/

step 2 - strong entities - subtypes

director (id, pastMovies)

actor (id, ethnicity)

author (id, scripts )

producer (id, movieProduced)

step 3 - weak entities

/\*RELATIONSHIPS\*/

step 4 - Binary (1-1 or 1-m)

writes (id, salary )

produces (id, salary)

ifFilmedIn (id, name, year)

owns(id, name, purchaseDate)

step 5 - Binary (m-m)

directs (movieid, dirID, salary)

actsIn (actorid, movieID salary)

step 6 - > binary no date

step 7 - > Binary date

step 8 - recuressive relationships