**STEP 1: Mapping of regular (strong) entity types**

For entity USER\_PROFILES create relation USERS.

Include all simple attributes of USER\_PROFILES.

For entity MOVIE create relation MOVIES.

Include all simple attributes of MOVIE.

For entity SERIES create relation SERIES.

Include all simple attributes of SERIES.

For entity ACTOR create relation ACTORS.

Include all simple attributes of ACTOR.

For entity PRODUCTION\_COMPANY create relation PRODUCTION\_COMPANIES.

Include all simple attributes of PRODUCTION\_COMPANY.

For entity EMPLOYEE create relation EMPLOYEES.

Include all simple attributes of EMPLOYEE.

For entity ACCOUNT\_SUBSCRIPTION create relation SUBSCRIPTIONS.

Include all simple attributes of ACCOUNT\_SUBSCRIPTION.

**STEP 2: Mapping of weak entity types**

For entity FAVOURITES create relation FAVOURITES.

Include all simple attributes of FAVOURITES.

Include primary keys of USER\_PROFILE and SERIES/MOVIES

For entity CAST create relation CASTINGS.

Include all simple attributes of CAST.

Include primary keys of ACTORS and SERIES/MOVIES

**STEP 3: Mapping of binary 1:1 relationships**

For relationship HOLDS between USERS and SUBSCRIPTION include as foreign key in USERS the primary key of subscription.

**STEP 4: Mapping of binary 1:N relationships**

For the relationship EMLOY’S the relation on the N side is EMPLOYEE.

Include in EMPLOYEE the primary key of PRODUCTION\_COMPANY.

**STEP 5: Mapping of binary M:N relationships**

Create a new relation HANDLE to represent relationship HANDLE.

Include primary keys of USERS and EMPLOYEES.

Combine these into foreign key.

**STEP 6: Mapping of multivalued attributes**

Create relations Reviews.

Include seriesID/movieID as foreign key.

**STEP 7: Mapping of multivalued relationships**

Create new relation ACT and include all the primary keys of the participating relationships.

**STEP 8: Mapping specialisation and generalisation**

Choose option 8C:

Create superclass SUBSCRIPTION with type paymentMethod.

This is because the sub-classes are disjoint simple attributes.

**STEP 9: Mapping unions**

Create new relations DEVELOPER, POST\_PRODUCTION and ACCOUNT\_MANAGEMENT.

Use surrogate key employeeID.

This is because the sub-classes have attributes of their own.