

IMDB

Project deliverable

Normalization and Functional dependency

Relations:

Actor(ac_id , ac_name , a_gender, a_date_of_birth, a_birth_place);

- **Functional dependency:** ac_id -----> any subset of (ac_name , a_gender, a_date_of_birth ,a_birth_place)

Director(dir_id , dir_name , d_gender , d_date_of_birth ,d_birth_place);

- **Functional dependency:** dir_id -----> any subset of (dir_name , d_date_of_birth, d_gender , d_birth_place);

Writer(w_id, w_name);

- **Functional dependency:** w_id -----> w_name;

Movie(m_id , m_name, duration , release_date);

- **Functional dependency :** m_id -----> any subset of (m_name , duration , release_date)

Summary(m_id , summary);

- **Functional dependency :** m_id -----> summary

Biography(ac_id, bio);

- **Functional dependency :** ac_id -----> bio

Cast(m_id , a_id);

- **No Functional dependency**

Direction(m_id, dir_id);

- **No Functional dependency**

Genre(m_id, gen);

- **Functional dependency:** $m_id \rightarrow gen$;

Written(m_id, w_id);

- **No Functional dependency**

Rate(m_id , rating);

- **Functional dependency :** $m_id \rightarrow rating$;

Industry(m_id, ind_name);

- **Functional dependency:** $m_id \rightarrow ind_name$

The relational schema is in 3F :

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