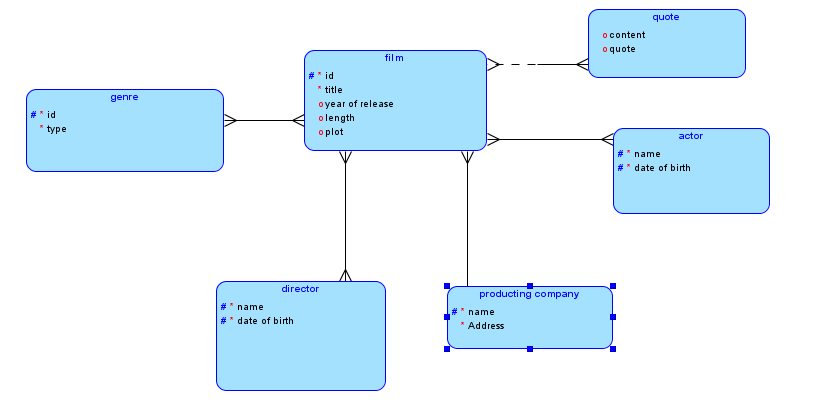
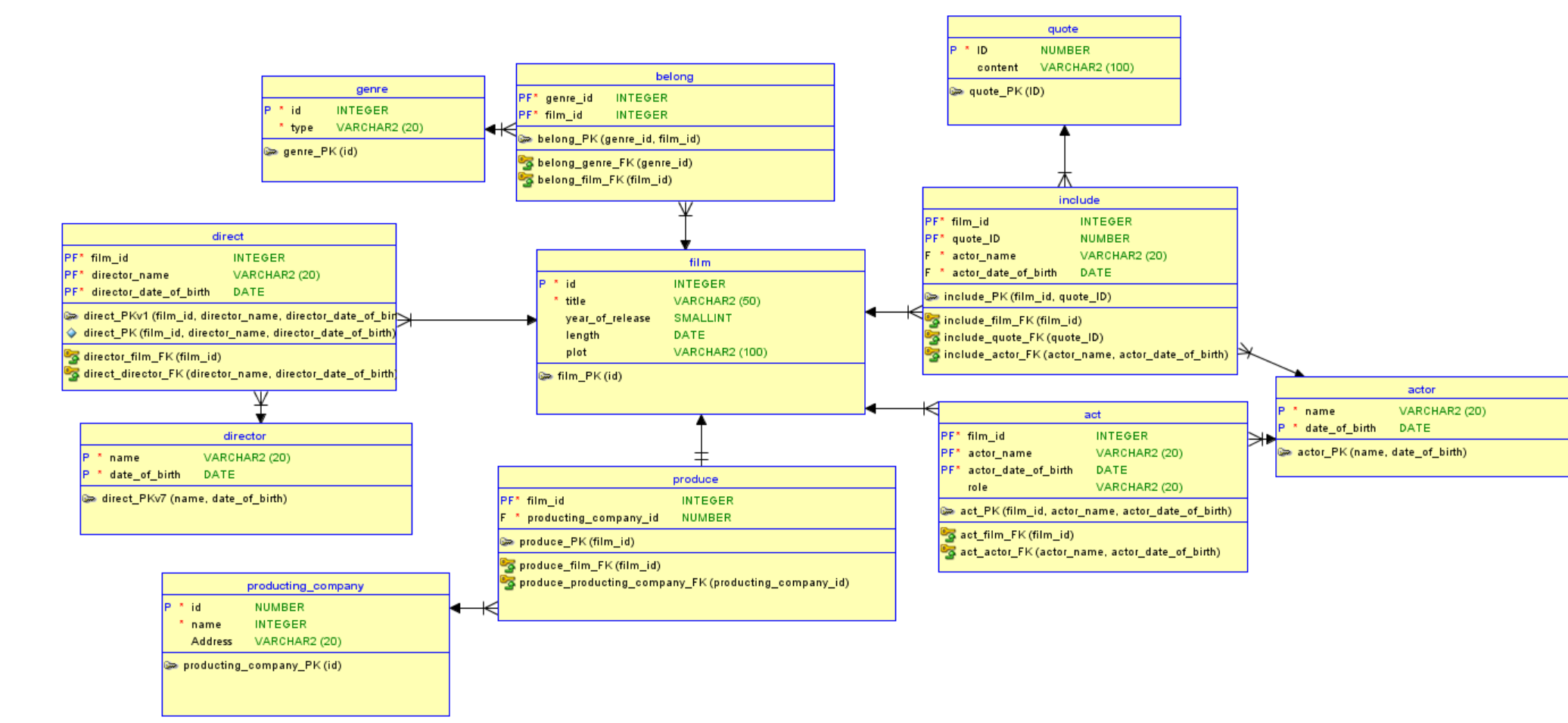
E-R图



关系模式（没有进行合并）



SQL脚本

**CREATE** **TABLE** act (

film\_id **INTEGER** **NOT** **NULL**,

actor\_name **VARCHAR2**(20) **NOT** **NULL**,

actor\_date\_of\_birth **DATE** **NOT** **NULL**,

**role** **VARCHAR2**(20)

);

**ALTER** **TABLE** act

**ADD** **CONSTRAINT** act\_pk **PRIMARY** **KEY** ( film\_id,actor\_name,actor\_date\_of\_birth );

**CREATE** **TABLE** actor (

**name** **VARCHAR2**(20) **NOT** **NULL**,

date\_of\_birth **DATE** **NOT** **NULL**

);

**ALTER** **TABLE** actor **ADD** **CONSTRAINT** actor\_pk **PRIMARY** **KEY** ( **name**,date\_of\_birth );

**CREATE** **TABLE** belong (

genre\_id **INTEGER** **NOT** **NULL**,

film\_id **INTEGER** **NOT** **NULL**

);

**ALTER** **TABLE** belong **ADD** **CONSTRAINT** belong\_pk **PRIMARY** **KEY** ( genre\_id,film\_id );

**CREATE** **TABLE** **direct** (

film\_id **INTEGER** **NOT** **NULL**,

director\_name **VARCHAR2**(20) **NOT** **NULL**,

director\_date\_of\_birth **DATE** **NOT** **NULL**

);

**ALTER** **TABLE** **direct**

**ADD** **CONSTRAINT** direct\_pkv1 **PRIMARY** **KEY** ( film\_id,director\_name,director\_date\_of\_birth );

**ALTER** **TABLE** **direct**

**ADD** **CONSTRAINT** direct\_pk **UNIQUE** ( film\_id,director\_name,director\_date\_of\_birth );

**CREATE** **TABLE** director (

**name** **VARCHAR2**(20) **NOT** **NULL**,

date\_of\_birth **DATE** **NOT** **NULL**

);

**ALTER** **TABLE** director **ADD** **CONSTRAINT** direct\_pkv7 **PRIMARY** **KEY** ( **name**,date\_of\_birth );

**CREATE** **TABLE** film (

id **INTEGER** **NOT** **NULL**,

title **VARCHAR2**(50) **NOT** **NULL**,

year\_of\_release **SMALLINT**,

length **DATE**,

plot **VARCHAR2**(100)

);

**ALTER** **TABLE** film **ADD** **CONSTRAINT** film\_pk **PRIMARY** **KEY** ( id );

**CREATE** **TABLE** genre (

id **INTEGER** **NOT** **NULL**,

**type** **VARCHAR2**(20) **NOT** **NULL**

);

**ALTER** **TABLE** genre **ADD** **CONSTRAINT** genre\_pk **PRIMARY** **KEY** ( id );

**CREATE** **TABLE** include (

film\_id **INTEGER** **NOT** **NULL**,

quote\_id **NUMBER** **NOT** **NULL**,

actor\_name **VARCHAR2**(20) **NOT** **NULL**,

actor\_date\_of\_birth **DATE** **NOT** **NULL**

);

**ALTER** **TABLE** include **ADD** **CONSTRAINT** include\_pk **PRIMARY** **KEY** ( film\_id,quote\_id );

**CREATE** **TABLE** produce (

film\_id **INTEGER** **NOT** **NULL**,

producting\_company\_id **NUMBER** **NOT** **NULL**

);

**ALTER** **TABLE** produce **ADD** **CONSTRAINT** produce\_pk **PRIMARY** **KEY** ( film\_id );

**CREATE** **TABLE** producting\_company (

id **NUMBER** **NOT** **NULL**,

**name** **INTEGER** **NOT** **NULL**,

address **VARCHAR2**(20)

);

**ALTER** **TABLE** producting\_company **ADD** **CONSTRAINT** producting\_company\_pk **PRIMARY** **KEY** ( id );

**CREATE** **TABLE** **quote** (

id **NUMBER** **NOT** **NULL**,

**content** **VARCHAR2**(100)

);

**ALTER** **TABLE** **quote** **ADD** **CONSTRAINT** quote\_pk **PRIMARY** **KEY** ( id );

**ALTER** **TABLE** act

**ADD** **CONSTRAINT** act\_actor\_fk **FOREIGN** **KEY** ( actor\_name,actor\_date\_of\_birth )

**REFERENCES** actor ( **name**,date\_of\_birth );

**ALTER** **TABLE** act

**ADD** **CONSTRAINT** act\_film\_fk **FOREIGN** **KEY** ( film\_id )

**REFERENCES** film ( id );

**ALTER** **TABLE** belong

**ADD** **CONSTRAINT** belong\_film\_fk **FOREIGN** **KEY** ( film\_id )

**REFERENCES** film ( id );

**ALTER** **TABLE** belong

**ADD** **CONSTRAINT** belong\_genre\_fk **FOREIGN** **KEY** ( genre\_id )

**REFERENCES** genre ( id );

**ALTER** **TABLE** **direct**

**ADD** **CONSTRAINT** direct\_director\_fk **FOREIGN** **KEY** ( director\_name,director\_date\_of\_birth )

**REFERENCES** director ( **name**,date\_of\_birth );

**ALTER** **TABLE** **direct**

**ADD** **CONSTRAINT** director\_film\_fk **FOREIGN** **KEY** ( film\_id )

**REFERENCES** film ( id );

**ALTER** **TABLE** include

**ADD** **CONSTRAINT** include\_actor\_fk **FOREIGN** **KEY** ( actor\_name,actor\_date\_of\_birth )

**REFERENCES** actor ( **name**,date\_of\_birth );

**ALTER** **TABLE** include

**ADD** **CONSTRAINT** include\_film\_fk **FOREIGN** **KEY** ( film\_id )

**REFERENCES** film ( id );

**ALTER** **TABLE** include

**ADD** **CONSTRAINT** include\_quote\_fk **FOREIGN** **KEY** ( quote\_id )

**REFERENCES** **quote** ( id );

**ALTER** **TABLE** produce

**ADD** **CONSTRAINT** produce\_film\_fk **FOREIGN** **KEY** ( film\_id )

**REFERENCES** film ( id );

**ALTER** **TABLE** produce

**ADD** **CONSTRAINT** produce\_producting\_company\_fk **FOREIGN** **KEY** ( producting\_company\_id )

**REFERENCES** producting\_company ( id );