Database Concepts Final Project Part I

FIRST NORMAL FORM

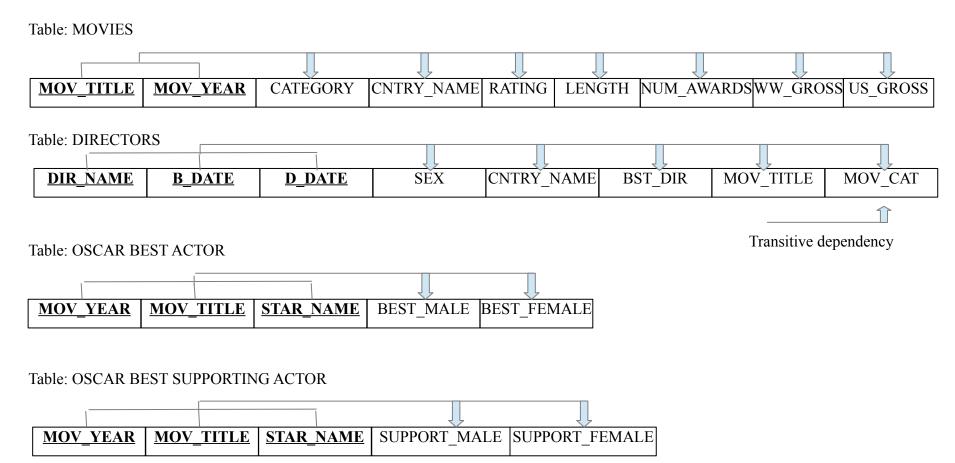
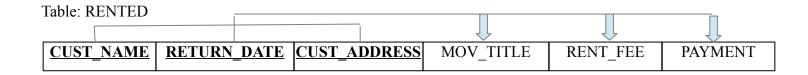


Table: STARS



Table: CUSTOMERS





SECOND NORMAL FORM

There are not any partial dependencies, therefore the diagram is already in second normal form.

THIRD NORMAL FORM

Table: MOVIES





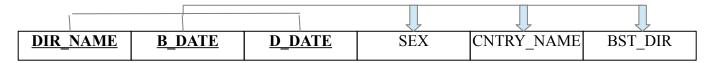


Table: OSCAR BEST ACTOR



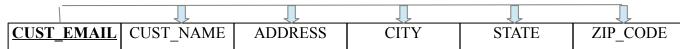
Table: OSCAR BEST SUPPORTING ACTOR

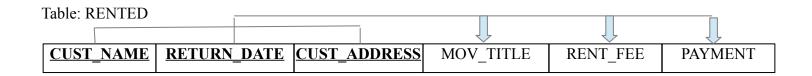


Table: STARS



Table: CUSTOMERS





FINAL DEPENDENCY DIAGRAM





Table: DIRECTORS

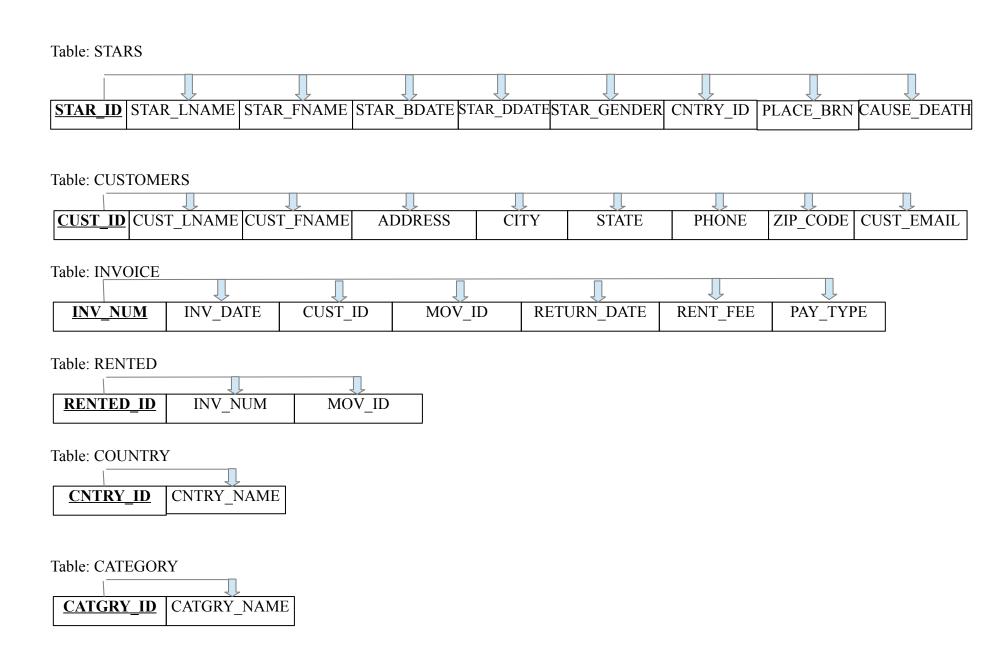


Table: STAR AWARDS



Table: DIRECTOR AWARDS





DATA DICTIONARY

TABLE NAME	ATTRIBUTE NAME	CONTENTS	ТҮРЕ	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCED TABLE
MOVIES	MOV_ID	Movie identification number	INT(6)	######	10000-99999	Y	PK	
	MOV_TITLE	Title of the movie	VARCHAR(30)	Xxxxxx	NA	Y		
	MOV_YEAR	Year that the movie was made	INT(4)	####	1920-2050	Y		
	MOV_RATING	Rating for the movie	CHAR(4)	####	NA	Y		
	MOV_LENGTH	Movie length in minutes	INT(3)	###	000-400			
	NUM_AWARDS	Number of awards the movie received	INT(2)	##	0-15			
	WW_GROSS	How much money received world wide	NUMBER (19,2)	###,###,# ##,###.##	0.00- 999,999,999, 999.99			
	US_GROSS	How much money received in the U.S.	NUMBER (19,2)	###,###,# ##,###.##	0.00- 999,999,999, 999.99			
	CATGRY_ID	Identifier for the type of movie (horror, action, romance)	INT(3)	###	100-999	Y	FK	CATEGORY
	CNTRY_ID	Identifier for the country where the movie was filmed	INT(3)	###	100-999	Y	FK	COUNTRY

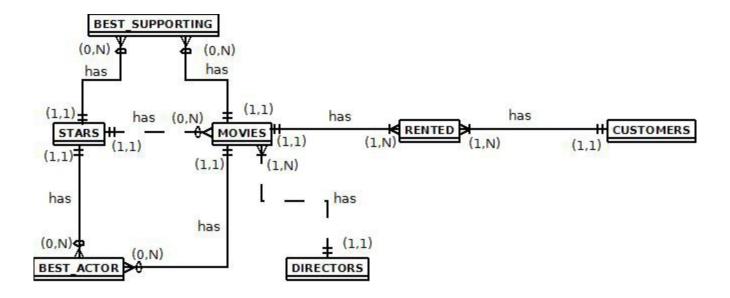
	DIR_ID	Director identification number	INT(6)	######	100000- 999999	Y	FK	DIRECTORS
STARS	STAR_ID	Star identification number	INT(6)	######	100000- 999999	Y	PK	
	STAR_LNAME	Last Name of the person	VARCHAR(15)	Xxxxxx	NA	Y		
	STAR_FNAME	First Name of the person	VARCHAR(15)	Xxxxxx	NA	Y		
	STAR_BDATE	Birth date of the person	DATE	dd-mmm- yyyy	NA	Y		
	STAR_DDATE	Date of death of the person	DATE	dd-mmm- yyyy	NA			
	STAR_GENDER	Male or Female(M or F)	CHAR(1)	X	M or F	Y		
	CNTRY_ID	Identifier for the country the person was born	INT(3)	###	100-999	Y	FK	COUNTRY
	PLACE_BRN	City the person was born	VARCHAR(20)	Xxxxxx	NA			
	CAUSE_DEATH	Reason why person died	VARCHAR(100)	Xxxxxx	NA			
DIRECTORS	DIR_ID	Director identification number	INT(6)	######	100000- 999999	Y	PK	
	DIR_LNAME	Last name of the person	VARCHAR(15)	Xxxxxx	NA	Y		
	DIR_FNAME	First name of the person	VARCHAR(15)	Xxxxxx	NA	Y		
	DIR_BDATE	Birth date of the person	DATE	dd-mmm- yyyy	NA	Y		
	DIR_DDATE	Date of death of the person	DATE	dd-mmm- yyyy	NA			
	DIR_GENDER	Male or Female(M or F)	CHAR(1)	X	M or F	Y		
	CNTRY_ID	Identifier for the country the person was born	INT(3)	###	100-999	Y	FK	COUNTRY

COUNTRY	CNTRY_ID	Country identification number	INT(3)	###	100-999	Y	PK	
	CNTRY_NAME	Name of the country the movie was filmed OR country where the person was born	VARCHAR(20)	Xxxxxx	NA	Y		
CATEGORY	CATGRY_ID	Category identification number	INT(3)	###	100-999	Y	PK	
	CATGRY_NAME	Name of the category (ex: horror, action)	VARCHAR(20)	Xxxxxx	NA	Y		
STAR_AWARDS	MOV_ID	Movie identification number	INT(6)	######	10000-99999	Y	FK	MOVIES
	STAR_ID	Star identification number	INT(6)	######	100000- 999999	Y	FK	STARS
	BEST_MALE	Oscar Best Male Actor Award W=won N=Nominated	CHAR(1)	X	W or N	Y		
	BEST_FEMALE	Oscar Best Female Actress Award W=won N=Nominated	CHAR(1)	X	W or N	Y		
	SUPPORT_MALE	Oscar Best Supporting Male Actor Award W=won N=Nominated	CHAR(1)	X	W of N	Y		
	SUPPORT_FEMALE	Oscar Best Supporting Female Actress Award W=won N=Nominated	CHAR(1)	X	W or N	Y		
DIR_AWARDS	MOV_ID	Movie identification number	INT(6)	######	10000- 99999	Y	FK	MOVIES

	STAR_ID	Star identification number	INT(6)	######	100000- 999999	Y	FK	STARS
	BEST_DIR	Oscar Best Director Award W=won N=Nominated	CHAR(1)	X	W or N	Y		
CUSTOMERS	CUST_ID	Customer identification number	INT(6)	######	100000- 999999	Y	PK	
	CUST_LNAME	Last name of the customer	VARCHAR(15)	Xxxxxx	NA	Y		
	CUST_FNAME	First name of the customer	VARCHAR(15)	Xxxxxx	NA	Y		
	ADDRESS	Home address of the customer	VARCHAR(25)	Xxxxxx	NA	Y		
	CITY	City of where the customer lives	VARCHAR(15)	Xxxxxx	NA	Y		
	STATE	State of where the customer lives	CHAR(2)	XX	NA	Y		
	PHONE	Phone number of the customer	CHAR(12)	###-###-	NA	Y		
	ZIP_CODE	Zip code for the customer's address	CHAR(5)	#####	00000- 99999	Y		
	CUST_EMAIL	Email for the customer	VARCHAR(20)	Xxxxxx	NA			
INVOICE	INV_NUM	Invoice identification number	INT(6)	######	100000- 999999	Y	PK	
	CUST_ID	Customer identification number	INT(6)	######	100000- 999999	Y	FK	CUSTOMERS
	MOV_ID	Movie identification number	INT(6)	######	10000- 99999	Y	FK	MOVIES
	INV_DATE	Date of the invoice	DATE	dd-mmm- yyyy	NA	Y		

	RETURN_DATE	Return date for the rentals	DATE	dd-mmm- yyyy	NA	Y		
	RENT_FEE	Cost of the rental	NUMBER(7,2)	###.##	0.00-999.99	Y		
	PAY_TYPE	How the customer paid the invoice CC=credit card, DC=debit card, CK=check, CH=cash	CHAR(2)	XX	DC, CC, CK, or CH	Y		
RENTED	RENTED_ID	Identification for what has been rented	INT(6)	######	100000- 999999	Y	PK	
	INV_NUM	Invoice identification number	INT(6)	######	100000- 999999	Y	FK	INVOICE
	MOV_ID	Movie identification number	INT(6)	######	10000- 99999	Y	FK	MOVIES

INTIAL ERD



FINAL ERD

