Final project Spoiler Alert CS 4750

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Actor Table

Schema Statement:

Actor (Actor_Name, Booking_Number, Actor_Hometown, Actor_Review)

Functional Dependencies:

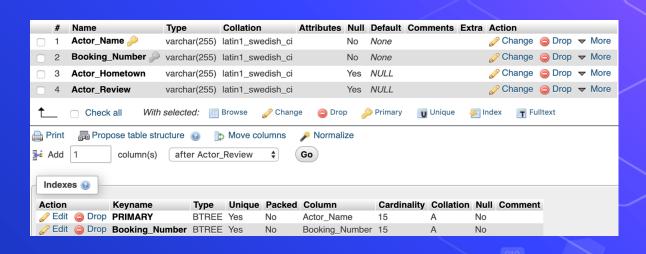
A -> ABCD

B -> B

C -> C

D -> D

Fc: 3NF: A -> BCD ABCD



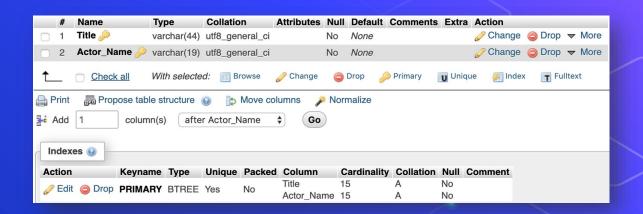
Acts_In Table

Schema Statement:

Acts_In (Title, Actor_Name)

Functional Dependencies:

AB -> AB



Agent Table

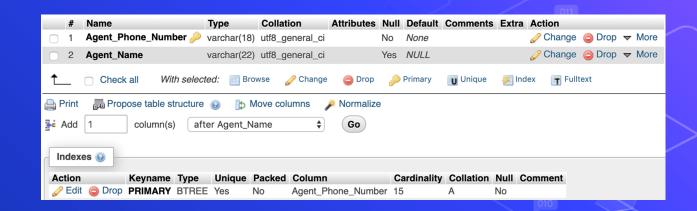
Schema Statement:

Agent (Agent_Phone_Number, Agent_Name)

Functional Dependencies:

A -> AB

Fc: 3NF: A -> B AB



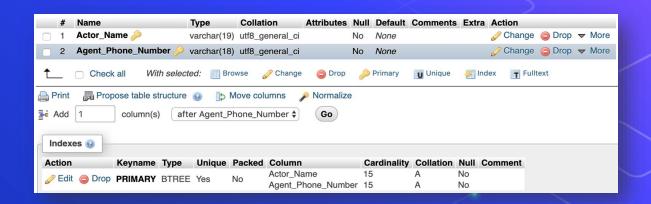
Managed_By Table

Schema Statement:

Managed_By(Actor_Name, Agent_Phone_Number)

Functional

Dependencies:



Directed_By Table

Schema Statement:Directed_By (<u>Title</u>, <u>Director_Name</u>)

Functional Dependencies:

AB -> AB

# 1	Name Title		Type varchar(44	Colla) utf8_c				Default <i>None</i>	Comments	Extra	Action Change	Drop	→ More
_ 2	Director_	Name 🔑	varchar(50	utf8_c	general_ci		No	None			Change	Drop	▼ More
←	Check	all <i>Wit</i>	h selected	Br	rowse 💰	Change	Dro	p 🔑 P	rimary 🕡	Unique	Index	Fulltex	t
Print Propose table structure Move columns Normalize													
∄e Add 1 column(s) after Director_Name ❖ Go													
Indexes													
Actio	n	Keyname	Type l	Jnique	Packed	Column	С	ardinality	/ Collation	Null C	Comment		
Ø Ed	lit 🔵 Drop	PRIMARY	BTREE Y	es ·	No	Title Director_Na	18 me 18		A A	No No			

Director Table

Schema Statement:

Director (Director_Name, Number_of_Oscar, Director_Rating, Director_Review)

Functional Dependencies:

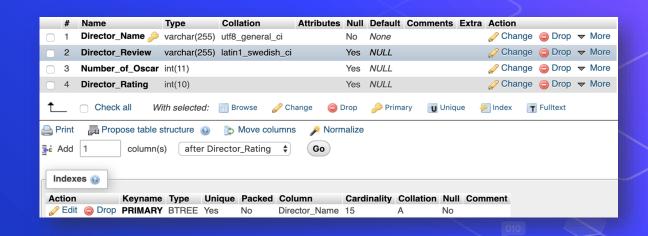
A -> ABCD

B -> B

C -> C

D -> D

Fc: 3NF: A -> BCD ABCD



Movie Table

Schema Statement:

Movie(<u>Title</u>, Duration, Gross, Language, Movie_Review, Genre)

Functional Dependencies:

A -> ABCDE

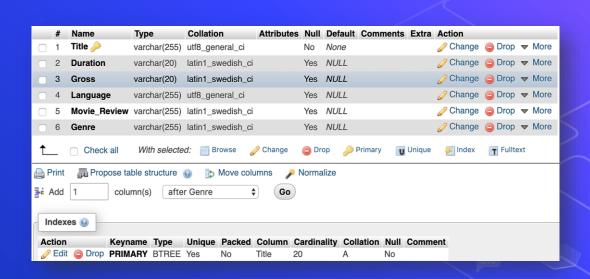
B -> B

C -> C

D -> [

E -> E

Fc: 3NF: A -> BCDE ABCDE



Produced_By Table

Schema Statement:

Produced_By (Production_ID, Title)

Functional Dependencies:

AB -> AB

Fc: 3NF:

AB-> AB



Production_Company Table

Schema Statement:

Production_Company (Production_ID, Production_Name)

Functional Dependencies:

A -> AB

B -> B

Fc: 3NF:

 $A \rightarrow B$ AB

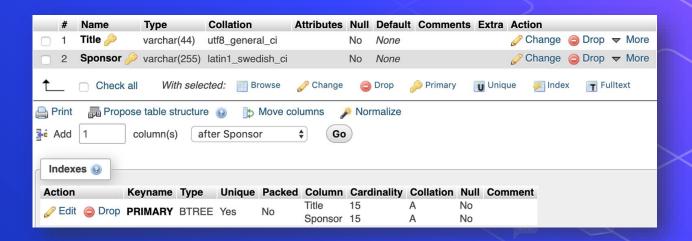


Movie_Sponsor Table

Schema Statement:Movie_Sponsor(<u>Title</u>, <u>Sponsor</u>)

Functional Dependencies:

AB -> AB



Database Security

Privileges only for certain users

Username and Password required to write
 to DB



Maximum Character Count for Review

- Trigger after each review update.
- Truncate Review characters at 1000.

CREATE TRIGGER `Check_Validity_Movie` AFTER UPDATE ON `Movie`

FOR EACH ROW UPDATE Movie

SET `Movie_Review` = LEFT(Movie_Review,1000)

WHERE LEN(Movie_Review) > 1000



Stored Procedure Insert_Movie

- A stored procedure to easily enter new

movies



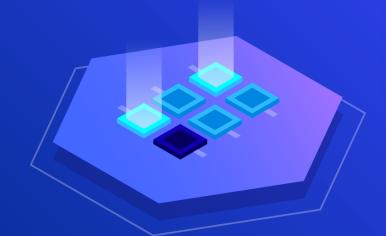
CREATE DEFINER=`hwb9za`@`%` PROCEDURE `Insert_Movie`(IN `Title` VARCHAR(255), IN `Duration` VARCHAR(20), IN `Gross` VARCHAR(20), IN `Language` VARCHAR(255), IN `Movie_Review` VARCHAR(255), IN `Genre` VARCHAR(255))

NO SQL

INSERT INTO Movie ('Title', 'Duration', 'Gross', 'Language', 'Movie_Review', 'Genre')

VALUES (Title, Duration, Gross, Language, Movie_Review, Genre)

\$\$DELIMITER;



Application Demo

- Spoiler Alert Link:

<u> http://cs4750.cs.virginia.edu/~lns4pr/db</u>

<u>/homepage.html</u>

Question and Answer

