PHASE REPORT

Group members:

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Environmental Information:

- 1. Database MySQL
- 2. Front-End HTML, PHP
- 3. Language of Front End HTML, PHP
- 4. Server Apache2 Ubuntu

Transactions Description:

The transactions that we have implemented can broadly be divided into 3 parts.

- 1. Transactions to 'View the existing Database'
- 2. Transactions to 'Search the Database'
- 3. Transactions to allow User to 'Add new entries into the Database'

Transactions to 'View the existing Database'

- 1. View Persons
 - a. This allows us to view all the People present in the Database.
 - b. This is done by selecting all entires from
 - i. The 'Person' Table which contains information about every single Person present in the database
 - c. <u>SQL Code:</u> SELECT * FROM Person
 - d. Result:

SELECT * FROM Person;			
uccess			
FirstName	LastName	DOB	Gender
Meryl	Streep	1990-08-15	E:
Robert	Downey	1965-04-04	М
John	Krasinski	1979-10-20	М
Anthony	Russo	1970-02-03	М
Emma.	Stone	1988-11-06	F
Sal	Gadot	1985-04-30	F:
Patty	Jenkins .	1971-07-24	F
Peter	Dinklage	1971-07-24	М
Mily	Втоеп	1971-07-24	F.
Kumall	Nanjiani	1971-07-24	М
Emilia	Clarke	1971-07-24	F
Damien	Chazelle	1985-01-19	M
Ramin	Djawadi	1974-07-19	М
Matt	Duffer	1984-02-15	М.
Ross	Duffer	1984-02-15	М
David	Russell	1958-08-20	М
Matthew	Jensen	0000-00-00	М
Charlotte	Christensen	1978-03-20	F
Jser	1	0000-00-00	М
Jser	2	1999-03-20	F
Emily	Blunt	1983-02-23	F
Chris	Evans	1981-06-13	М
Chris	Pine	1980-08-26	М
Ryan	Gosling	1980-11-12	М
Steve	Carell	1962-08-16	М
Mandy	Moore	1984-04-10	F
form	Cross	0000-00-00	м
loe	Russo	1971-07-08	M

2. View Actors

- a. This allows us to view all the Actors present in the Database.
- b. This is done by performing a Join on
 - i. The 'Actor' table which contains information about who among the Persons are Actors,
 - ii. The 'Person' Table which contains information about every single Person present in the database
- c. <u>SQL Code:</u> SELECT * FROM Actor t1 JOIN Person t2 ON t1.Person_Id = t2.Person_Id;
- d. Result:

Home	View Persons View Actors	View Directors View Movies Vie	w TV Shows Actors cum Directors View Reviews	Vamsikris
	SELECT * FROM Actor	t1 JOIN Person t2 ON t1.Person_ld = t2.	Person_ld;	
	Success			
	FirstName	LastName	DOB	Gender
	Meryl	Streep	1990-08-15	F
	Robert	Downey	1965-04-04	М
	John	Krasinski	1979-10-20	М
	Emma	Stone	1988-11-06	F
	Gal	Gadot	1985-04-30	F
	Peter	Dinklage	1971-07-24	М
	Milly	Brown	1971-07-24	F
	Kumail	Nanjiani	1971-07-24	М
	Emilia	Clarke	1971-07-24	F
	Emily	Blunt	1983-02-23	F
	Chris	Evans	1981-06-13	М
	Chris	Pine	1980-08-26	М
	Ryan	Gosling	1980-11-12	М
	Steve	Carell	1962-08-16	М
	Mandy	Moore	1984-04-10	F

3. View Directors

- a. This allows us to view all the Directors present in the Database.
- b. This is done by performing a Join on
 - i. The 'Director' table which contains information about who among the Persons are Directors,
 - ii. The 'Person' Table which contains information about every single Person present in the database
- c. SQL Code:

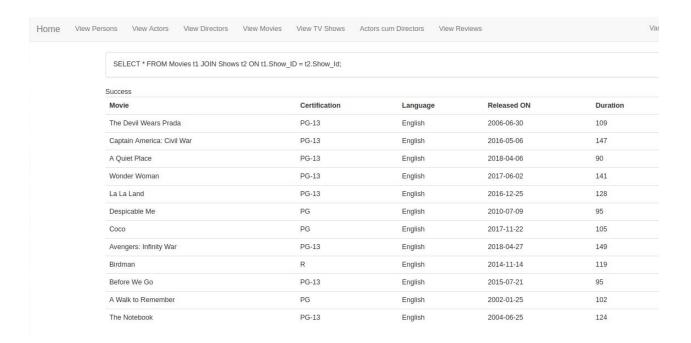
SELECT * FROM Director t1 JOIN Person t2 ON t1.Person_Id = t2.Person_Id;

me Vie					
	SELECT * FROM Dire	ector t1 JOIN Person t2 ON t1.Persor	_ld = t2.Person_ld;		
	Success				
	FirstName	LastName	DOB	Gender	DirectionType
	John	Krasinski	1979-10-20	М	Movie
	Anthony	Russo	1970-02-03	М	Movie
	Patty	Jenkins	1971-07-24	F	Movie
	Damien	Chazelle	1985-01-19	М	Movie
	Ramin	Djawadi	1974-07-19	М	Music
	Matt	Duffer	1984-02-15	М	Movie
	Ross	Duffer	1984-02-15	М	Movie
	Chris	Evans	1981-06-13	М	Movie
	Joe	Russo	1971-07-08	М	Movie

4. View Movies

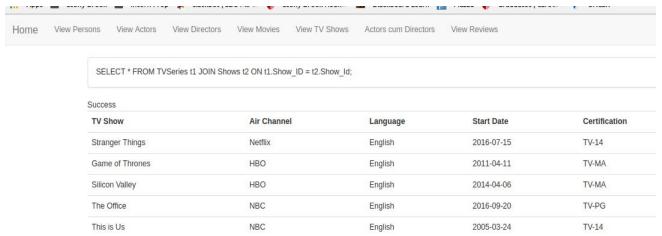
- a. This allows us to view all the Movies present in the Database.
- b. This is done by performing a Join on
 - i. The 'Movie' table which contains information about which among the Shows are Movies,
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series
- c. SQL Code:

SELECT * FROM Movies t1 JOIN Shows t2 ON t1.Show_ID = t2.Show_Id;



5. View TV Shows

- a. This allows us to view all the TV Shows present in the Database.
- b. This is done by performing a Join on
 - i. The 'TV Series' table which contains information about which among the Shows are TV Series,
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series
- c. <u>SQL Code:</u> SELECT * FROM TVSeries t1 JOIN Shows t2 ON t1.Show_ID = t2.Show_Id;
- d. Result:



- 6. Search People who are both Actors and Directors
 - a. This allows us to view all the people who are both Actors and Directors.
 - b. This is done by performing a Join on
 - i. The 'Director' table which contains information about who among the Persons are Directors,
 - ii. The 'Actor' table which contains information about who among the Persons are Actors,
 - iii. The 'Person' Table which contains information about every single Person present in the database.
 - c. SQL Code:

SELECT * From Director t1 JOIN Actor t2
ON t1.Person_Id = t2.Person_Id JOIN Person t3
ON t1.Person_Id = t3.Person_Id;

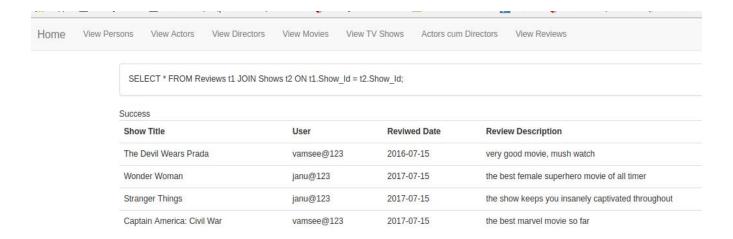
- d. Result:
 - i. The results gives 2 entries
 - 1. John Krasinski acted and directed 'A Quiet Place'.
 - 2. Chris Evans acted in 'Captain America:Civil War', 'Avengers Infinity War' and directed 'Before We Go'.

lome Vi	ew Persons View Actors	View Directors View Movies	View TV Shows	Actors cum Directors	View Reviews	
		r t1 JOIN Actor t2 ON t1.Person_ld	= t2.Person_ld JOIN I	Person t3 ON t1.Person_I	ld = t3.Person_ld;	
	Success FirstName	LastNan	1e	Gender		DOB
	John	Krasinski	i	М		1979-10-20

7. View Reviews

- a. This allows us to view all the Reviews provided by the Users for the Shows existing in the Database.
- b. This is done by performing a Join on
 - i. The 'Reviews' table which contains information about the Reviews provided by the Users,
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series
- c. SQL Code:

SELECT * FROM Reviews t1 JOIN Shows t2 ON t1.Show Id = t2.Show Id;



Transactions to 'Search the Database'

- 1. Search Shows of Actors
 - a. This allows us to Search the Database for all the Shows (Movies + TV Series) of a particular actor. The input for the Actor is provided by the User.
 - b. This is done by performing a Join on
 - i. The 'Acting' Table which contains the Shows and Actor pairs, i.e which actors acted in which Shows,
 - ii. The 'Actor' table which contains information about who among the Persons are Actors,
 - iii. The 'Person' Table which contains information about every single Person present in the database,
 - iv. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series.

c. SQL Code:

```
SELECT * FROM Acting t1 JOIN Actor t2
ON t1.Actor_ld = t2.Person_ld JOIN Person t3
ON t3.Person_ld = t2.Person_ld JOIN Shows t4
ON t1.Show_ld = t4.Show_ld
WHERE t3.First_Name LIKE '%Robert%' or t3.Last_Name LIKE '%Robert%';
```

The LIKE operator here is used to retrieve information even if someone types in half the name, say 'Rober' instead of 'Robert'. This could have been a typo, hence we have considered this scenario.

Also, the search can be done based on just First Name, just Last Name, or both included.

d. Result:

Searching Shows of 'Emma Stone'

Home Search Shows of Actor Search Shows of Director Search Actors of Movies Search Rating By Movie Search Highest grossing Movie Search Movie by year Vamsikrie

SELECT * FROM Acting 11 JOIN Actor t2 ON t1.Actor_Id = t2.Person_Id JOIN Person t3 ON t3.Person_Id = t2.Person_Id JOIN Shows t4 ON t1.Show_Id = t4.Show_Id WHERE t3.First_Name LIKE '%Emma Stone%' or t3.Last_Name LIKE '%Emma Stone%' or CONCAT(t3.First_name,'',t3.Last_name) = 'Emma Stone';

Success				
FirstName	LastName	Shows	Certification	
Emma	Stone	La La Land	PG-13	
Emma	Stone	Birdman	R	

ii. Searching Shows of 'Rober'

Home	Search Shows of Actor	Search Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	Vamsiki
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SELECT * FROM Acting 11 JOIN Actor 12 ON 11.Actor_ld = t2.Person_ld JOIN Person 13 ON t3.Person_ld = t2.Person_ld JOIN Shows t4 ON t1.Show_ld = t4.Show_ld WHERE t3.First_Name LIKE '%Robert%' or t3.Last_Name LIKE '%Robert%'

Success			
FirstName	LastName	Shows	Certification
Robert	Downey	Captain America: Civil War	PG-13
Robert	Downey	Avengers: Infinity War	PG-13

iii. Searching Shows of 'Emily Blunt'

Home	Search Shows of Actor	Search Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	Vam
		ROM Acting t1 JOIN Actor t2 C ne LIKE '%Emily%' or t3.Last_N			n_ld = t2.Person_ld JOIN Shows t4 _name) ='Emily';	ON t1.Show_ld = t4.Show_ld V	VHERE
	Success						
	FirstName	LastNa	me S	Shows		Certification	
	Emily	Rlunt	т	he Devil Wears Prada		PG-13	

A Quiet Place

PG-13

iv. Searching Shows of 'John'

Blunt

Emily

SELECT * FROM Acting t1 JOIN Actor t2 ON t1.Actor_ld = t2.Person_ld JOIN Person t3 ON t3.Person_ld = t2.Person_ld JOIN Shows t4 ON t1.Show_ld = t4.Show_ld WHERE t3.First Name LIKE '%John%' or t3.Last Name LIKE '%John	поше	Search Shows of Actor	Search Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	
ts.Filst_Name_Like %50mm of ts.Last_Name_Like %50mm of Concar(ts.Filst_name, ,ts.Last_name) = 50mm,			9			T .	ON t1.Show_ld = t4.Show_ld \	WHERE

Success			
FirstName	LastName	Shows	Certification
John	Krasinski	A Quiet Place	PG-13
John	Krasinski	The Office	TV-PG

2. Search Shows of Directors

- a. Similar to the above case, this allows us to Search the Database for all the Shows of a particular Director. The input for the Director is provided by the User.
- b. This is done by performing a Join on
 - i. The 'Directing' Table which contains the Shows and Director pairs, i.e which Directors directed in which Shows,
 - ii. The 'Director' table which contains information about who among the Persons are Directors,
 - iii. The 'Person' Table which contains information about every single Person present in the database,
 - iv. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series.
- c. SQL Code:

SELECT * FROM Direction t1 JOIN Director t2

ON t1.Director_Id = t2.Person_Id JOIN Person t3

ON t3.Person_Id = t2.Person_Id JOIN Shows t4

ON t1.Show_ld = t4.Show_ld

WHERE t3.First Name LIKE '%John%' or t3.Last Name LIKE '%John%';

- d. Result:
 - i. Shows directed by Damien Chazelle

	Success				
		t1 JOIN Director t2 ON t1.Director_ld = t2.Pers (E '%John%' or t3.Last_Name LIKE '%John%' or		n_ld = t2.Person_ld JOIN Shows t4 ON t1.Show_ld = t4. name) ='John';	Show_ld
ome Search	Shows of Actor Search Sho	ows of Director Search Actors of Movies	Search Rating By Movie Search	h Highest grossing Movie Search Movie by year	V
		rs directed by John Krasi		Hove	
	Damien	Chazelle	La La Land	Movie	
	Success FirstName	LastName	Shows	Direction Type	
		t1 JOIN Director t2 ON t1.Director_ld = t2.Pers (E '%Damien%' or t3.Last_Name LIKE '%Damie		n_ld = t2.Person_ld JOIN Shows t4 ON t1.Show_ld = ta 3.Last_name) ='Damien';	4.Show_lo

3. Search Actors of Shows

- a. This allows us to Search the Database for all the Actors of a particular Show. The input for the Show is provided by the User.
- b. This is done by performing a Join on
 - i. The 'Actor' table which contains information about who among the Persons are Actors,
 - ii. The 'Acting' Table which contains the Shows and Actor pairs, i.e which actors acted in which Shows,
 - iii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series,
 - iv. The 'Person' Table which contains information about every single Person present in the database.
- c. SQL Code:

SELECT * FROM Actor t1 JOIN Acting t2
ON t1.Person_Id = t2.Actor_Id JOIN Shows t3
ON t3.Show_Id = t2.Show_Id JOIN Person t4
ON t4.Person_Id = t1.Person_Id
WHERE t3.Title LIKE '%La La land%';

- d. Result:
 - i. Actors in La La Land

Home S	Search Shows of Actor Search Show	s of Director Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	Vai
	SELECT * FROM Actor t1 J0 t3.Title LIKE '%La La Land%	DIN Acting t2 ON t1.Person_ld = t2.Actor_ld);	JOIN Shows t3 ON t3.Show_ld	d = t2.Show_ld JOIN Person t4 ON	t4.Person_ld = t1.Person_ld V	WHERE
	Success					
	Movie	FirstName	LastName	DO	OB	
	La La Land	Emma	Stone	19	88-11-06	
	La La Land	Ryan	Gosling	19	80-11-12	

ii. Actors in Quiet Place

Home	Search Shows of Actor	Search Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	Va
		ROM Actor t1 JOIN Acting t2 C %Quiet Place%';	N t1.Person_ld = t2.Actor_ld	JOIN Shows t3 ON t3.Show_	ld = t2.Show_ld JOIN Person t4 ON	l t4.Person_ld = t1.Person_ld W	/HERE
	Movie		FirstName	LastNa	ame	DOB	
	A Quiet Place		John	Krasins	ski	1979-10-20	

4. Search Rating Of Movie

- a. This allows us to Search the Database for the Rating of a particular Movie. The input for the Movie is provided by the User.
- b. This is done by performing a Join on

- i. The 'Movie' table which contains information about which among the Shows are Movies,
- ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series.
- c. SQL Code:

SELECT * FROM Movies t1 JOIN Shows t2
ON t1.Show_Id = t2.Show_Id WHERE t2.Title LIKE '%Avengers%';

- d. Result:
 - i. Rating of Avengers Infinity War



ii. Rating of A Quiet Place



5. Search Movies by Year

- a. This allows us to Search the Database for the Movies that were released in a particular year. The input for the Year is provided by the User.
- b. This is done by performing a Join on
 - i. The 'Movie' table which contains information about which among the Shows are Movies.
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series.
- c. SQL Code:

SELECT * FROM Movies t1 JOIN Shows t2 ON t1.Show_ld = t2.Show_ld WHERE t1.Year = 2017;

- d. Result:
 - Movies released in 2017

ome Se	earch Shows of Actor Search Show	s of Director Search Actors of Movies S	Search Rating By Movie Search Highest gro	ossing Movie Search Movie by year
	SELECT * FROM Movies t1 .	JOIN Shows t2 ON t1.Show_ld = t2.Show_ld W	HERE t1.Year = 2017;	
	Success Title	Release Date	Language	Certification
	Wonder Woman	2017-06-02	English	PG-13
	Coco	2017-11-22	English	PG

ii. Movies released in 2018

ome Sea	arch Shows of Actor	Search Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	
	SELECT * FROM Movies t1 JOIN Shows t2 ON t1.Show_ld = t2.Show_ld WHERE t1.Year = 2018;						
	Success						
	Title		Release I	Date	Language	Certification	
	A Quiet Place		2018-04-0	06	English	PG-13	

- 6. Search Highest Grossing Movie by Year
 - a. This allows us to Search the Database for the Highest Grossing Movies of a particular year. The input for the Year is provided by the User.
 - b. This is done by performing a Join on
 - i. The 'Box_Office_Collections' table which contains information about the Box Office Collections of a particular Movie,
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series,
 - iii. The 'Movie' table which contains information about which among the Shows are Movies.
 - c. The result provides all the Movies released in that year ordered in descending order of their Box Office Collections, the first entry indicating the highest grossing movie of that year.
 - d. SQL Code:

SELECT * FROM Box_Office_Collections t1 JOIN Shows t2 ON t1.Movie_Id = t2.Show_Id JOIN Movies t3 ON t1.Movie_Id = t3.Show_Id WHERE t3.Year = '2017' ORDER BY Overall_Worldwide_Collections DESC;

- e. Result:
 - i. Highest Grossing Movies in 2017

Home S	Search Shows of Actor Search	ch Shows of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year	٧
	SELECT * FROM Bo Overall_Worldwide_0		. JOIN Shows t2 ON t1.Movie	e_ld = t2.Show_ld JOIN Movie	es t3 ON t1.Movie_ld = t3.Show_ld \	VHERE t3.Year = '2017' ORDE	ER BY
	Success		Release Date		Budget	Revenue	
	Wonder Woman		2017-06-02		149000000	821763000	
	Coco		2017-11-22		175000000	807082000	

ii. Highest Grossing Movies in 2018

Home Se	earch Shows of Actor Search Shows	s of Director Search Actors of Movies	Search Rating By Movie	Search Highest grossing Movie	Search Movie by year
	SELECT * FROM Box_Office Overall Worldwide Collection	_Collections t1 JOIN Shows t2 ON t1.Movie	_Id = t2.Show_Id JOIN Movie	es t3 ON t1.Movie_ld = t3.Show_ld \	WHERE t3.Year = '2018' ORDER E
	11:01	15 DE30,			
	Success				
	Movie	Release	Date	Budget	Revenue
	Avengers: Infinity War	2018-04-2	77	321000000	2046900000

7. Search Shows by Genre

- a. This allows us to Search the Database for the Shows of a particular genre. The input for the Genre is provided by the User.
- b. This is done by performing a Join on
 - i. The 'In_Genre' Table which contains the Genre and Show pairs, i.e which Show belongs to which Genre,
 - ii. The 'Shows' Table which contains information about every single Show present in the database, Show includes both Movies + TV Series,
 - iii. The 'Genres' table which contains information about all the available Genres.
- c. <u>SQL Code</u>:

SELECT * from In_Genre t1 JOIN Shows t2 ON t1.Show_Id = t2.Show_Id JOIN Genres t3 ON t1.Genre_Id = t3.Genre_Id WHERE t3.Name = "Action"

- d. Result:
 - i. Animated Movies

	SELECT * FF	ROM In_Genre t1 JOIN Shows t2	2 ON t1.Show_ld = t2.Show_ld	JOIN Genres t3 ON t1.Genre	e_ld = t3.Genre_ld where t3.Nam	e ='Animation';	
	Success	Success					
	Show Title		Genre	Rating	Certific	cation	
	Despicable Me	9	Animation	7.7	PG		
	Coco		Animation	8.4	PG		
	ii.	Action Movies					
lome	Search Movies of Actor	Search Movies of Director	Search Actors of Movies	Search Rating By Movie	Search Highest grossing Mo	ovie Search Movie by y	
	SELECT * F	ROM In_Genre t1 JOIN Shows	t2 ON t1.Show_ld = t2.Show_	_ld JOIN Genres t3 ON t1.Ge	enre_ld = t3.Genre_ld where t3.	Name ='Action';	
	Success						
	Show Title			Genre	Rating	Certification	
	Captain Amer	ica: Civil War		Action	7.8	PG-13	
	Wonder Wom	an		Action	7.5	PG-13	
	Stranger Thin	gs		Action	8.9	TV-14	
	Game of Thro	nes		Action	9.5	TV-MA	

Transactions to allow User to 'Add new entries into the Database'

- Our model allows the User to modify the database by adding new Actors and Directors into the database.
- A request to add a new entry (actor/director) into the database should insert the
 actor/director in the Person table as well, as the Person table keeps track of all the
 people existing in the database.
 - If an Actor already exists in the Person and Actor table, and we want to add him as a Director as well, then we first check whether the actor exists in the Person table, and if it does, we insert the entry only in the director table, and vice versa.
 - Whereas if the Actor already exists in the Person and Actor table, and we want to add the same person again as an Actor, then this request will be Failed as the entry already exists in both the tables, and vice versa for the Director as well.
- The following details of the Actor are provided by the User.
 - First Name
 - Last Name
 - o DOB
 - Gender
 - Net Worth
 - Working Since Year

The result of the successful addition of the info in the Person and Actor/Director Tables
can be verified by Viewing the Person and Actor/Director tables using the View
Database functionality.

1. Add Actor

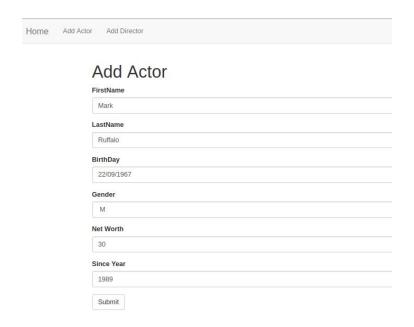
- a. This allows us to Add an Actor to the Database. The details of the Actor are provided by the User.
- b. This is done by performing an Insert into both the Person as well as actor table.
 - i. The 'Person' Table which contains information about every single Person present in the database. The Actor ID is obtained from the Person ID after inserting in to the Person Table.
 - ii. The 'Actor' table which contains information about who among the Persons are Actors.

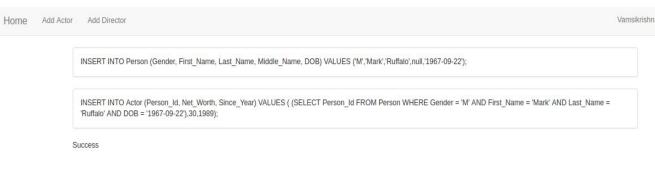
c. SQL Code:

INSERT INTO Person (Gender, First_Name, Last_Name, Middle_Name, DOB) VALUES ('M','Mark','Ruffalo',null,'1967-09-22');

INSERT INTO Actor (Person_Id, Net_Worth, Since_Year)
VALUES ((SELECT Person_Id FROM Person WHERE Gender = 'M' AND
First_Name = 'Mark' AND Last_Name = 'Ruffalo' AND DOB =
'1967-09-22'),30,1989);

- i. If doesn't exist in Person, inserts into both Person and Actor tables.
 - 1. Added Mark Ruffalo in the Actor Table.
 - 2. He doesn't exist yet in the Person Table, hence he is added to both the Person and Actor Table.





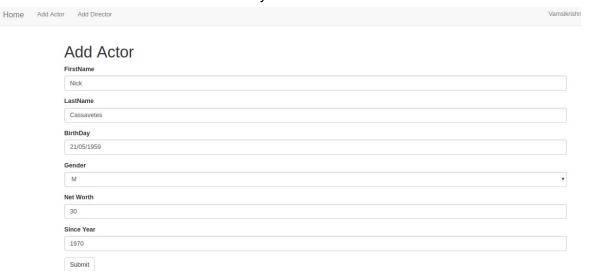
Snapshot of Person Table:

Mandy	Moore	1984-04-10	F
Tom	Cross	0000-00-00	М
Joe	Russo	1971-07-08	М
Mark	Ruffalo	1967-09-22	М

Snapshot of Actor Table:

Steve	Carell	1962-08-16	М
Mandy	Moore	1984-04-10	F
Mark	Ruffalo	1967-09-22	M

- ii. If exists in Person but doesn't exist in Actor, inserts only into Actor table.
 - Then, added Director Nick Cassavetes (Result is shown below).
 So he exists in the Person Table.
 - 2. Now added him in the Actor Table as well. He is added successfully in Actor Table.



INSERT INTO Person (Gender, First_Name, Last_Name, Middle_Name, DOB) VALUES ('M','Mark','Ruffalo',null,'1967-09-22');
INSERT INTO Director (Person_Id, Direction_Type, Since_Year) VALUES ((SELECT Person_Id FROM Person WHERE Gender = 'M' AND First_Name = 'Mark' AND Last_Name = 'Ruffalo' AND DOB = '1967-09-22'), 'Movie', 1989);

Snapshot of Actor Table

Steve	Carell	1962-08-16	М
Mandy	Moore	1984-04-10	F
Mark	Ruffalo	1967-09-22	М
Nick	Cassavetes	1959-05-21	М

- iii. If exists in both Person and Actor table, the transaction Fails.
 - 1. Trying to add Mark Ruffalo again in the Actor Table
 - This gives an error as he already exists in both Person and Actor Table.



2. Add Director

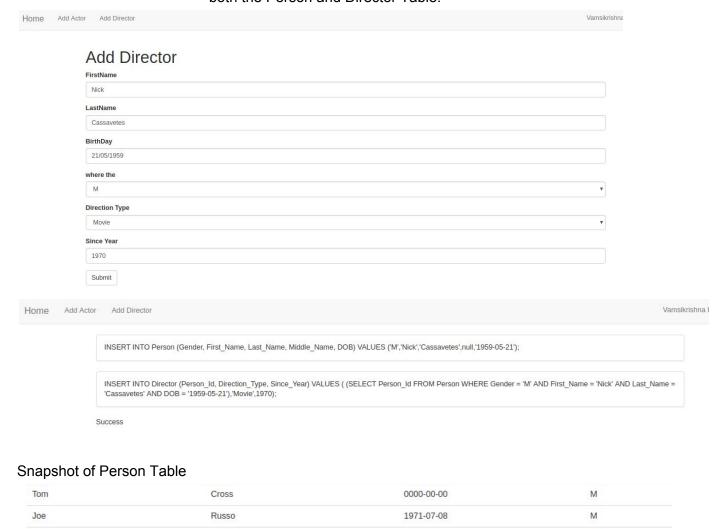
- a. Similar to the above case, this allows us to Add a Director to the Database. The details of the Director are provided by the User.
- b. This is done by performing an Insert into both the Person as well as Director table.
 - The 'Person' Table which contains information about every single Person present in the database. The Director ID is obtained from the Person ID after inserting in to the Person Table.
 - ii. The 'Director' table which contains information about who among the Persons are Directors.
- c. SQL Code:

INSERT INTO Person (Gender, First_Name, Last_Name, Middle_Name, DOB) VALUES ('M','Nick','Cassavetes',null,'1954-05-21');

INSERT INTO Director (Person_Id, Direction_Type, Since_Year) VALUES (
(SELECT Person_Id FROM Person WHERE Gender = 'M' AND First_Name =
'Nick' AND Last_Name = 'Cassavetes' AND DOB = '1954-05-21'), 'Movie', 1970);

d. Result:

- i. If doesn't exist in Person, inserts into both Person and Director tables.
 - Added Nick Cassavetes in the Director Table.
 - 2. He doesn't exist yet in the Person Table, hence he is added to both the Person and Director Table.



1967-09-22

1959-05-21

Snapshot of Director Table

Ruffalo

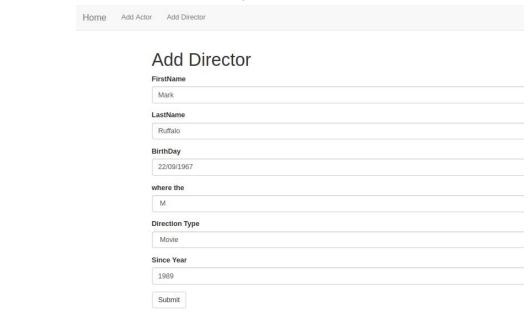
Cassavetes

Mark

Nick

Ross	Duffer	1984-02-15	M	Movie
Chris	Evans	1981-06-13	M	Movie
Joe	Russo	1971-07-08	М	Movie
Nick	Cassavetes	1959-05-21	M	Movie

- ii. If exists in Person but doesn't exist in Director, inserts only into Director table.
 - 1. Then, added Actor Mark Ruffalo. He exists in the Person Table.
 - 2. Now added him in the Director Table as well. He is added successfully in Director Table.



Home Add Actor Add Director Vamsikrish

INSERT INTO Person (Gender, First_Name, Last_Name, Middle_Name, DOB) VALUES ('M', Mark', 'Ruffalo', null, '1967-09-22');

INSERT INTO Director (Person_Id, Direction_Type, Since_Year) VALUES ((SELECT Person_Id FROM Person WHERE Gender = 'M' AND First_Name = 'Mark' AND Last_Name = 'Ruffalo' AND DOB = '1967-09-22'), 'Movie', 1989);

Person with the same details exists. Same person is added to Directors list

Snapshot of Directors Table

Chris	Evans	1981-06-13	М	Movie
Joe	Russo	1971-07-08	М	Movie
Mark	Ruffalo	1967-09-22	М	Movie
Nick	Cassavetes	1959-05-21	M	Movie

- iii. If exists in both Person and Director table, the transaction Fails.
 - 1. Trying to add Nick Cassavetes again in the Director Table
 - 2. This gives an error as he already exists in both Person and Director Table.