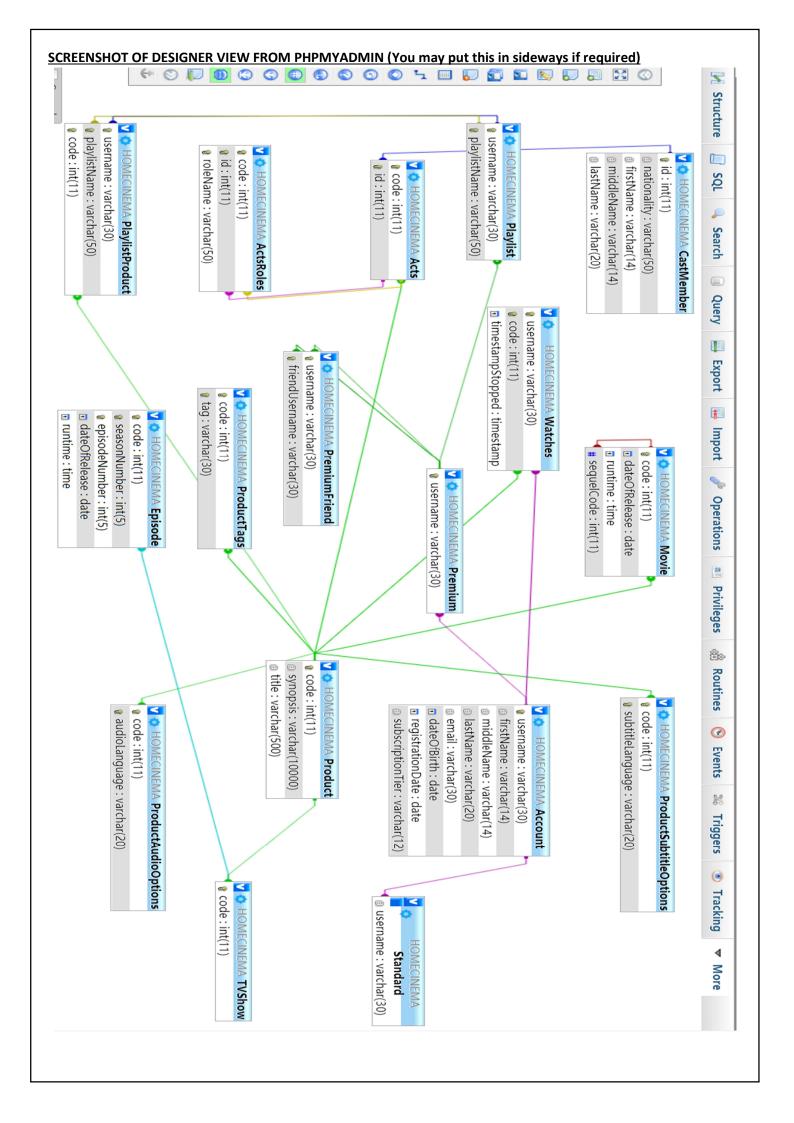
Assignment 2

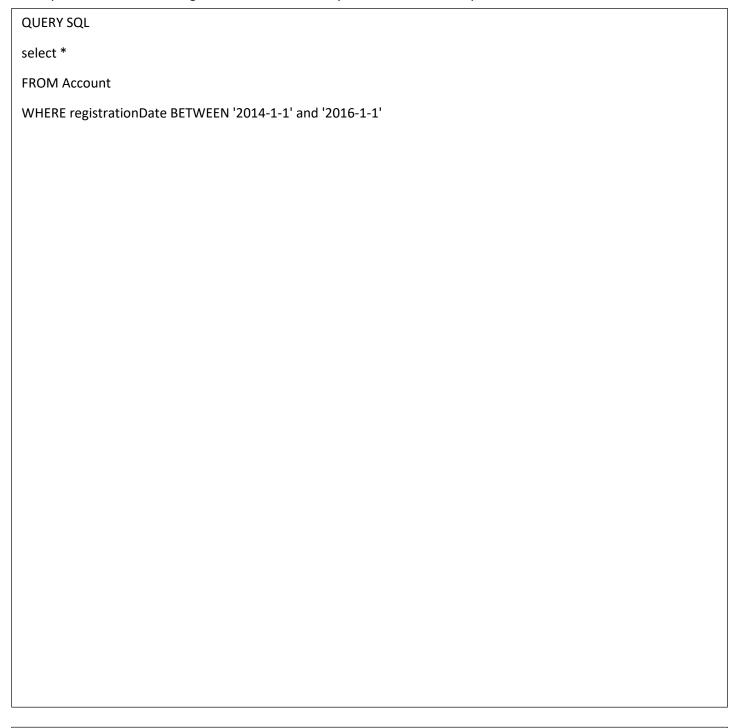
Name: Xiaoyu Dong

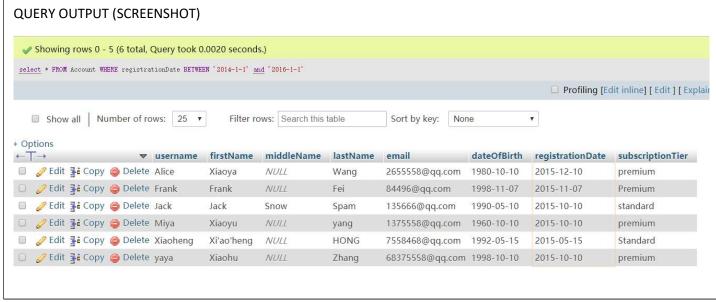
Student Number: 45576999



QUERY OUTPUT (SCREENSHOT) Why Soll returned an empty result set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.) values in an analyse set (i.e. zero rows). (Overy took 0.0025 seconds.)		
from Movie m, ProductTags PT where m.code=PT.code and PT.tag='action' QUERY OUTPUT (SCREENSHOT) WMySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) salags, a code from Brite a. ProductTags IT steers as code*PL code and PT.tag='action' Profiling [Edit Inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]	QUERY SQL	
from Movie m, ProductTags PT where m.code=PT.code and PT.tag='action' QUERY OUTPUT (SCREENSHOT) WMySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) salags, a code from Brite a. ProductTags IT steers as code*PL code and PT.tag='action' Profiling [Edit Inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
Where m.code=PT.code and PT.tag='action' QUERY OUTPUT (SCREENSHOT) WMySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) added, it onder from Morie in ProductTage PT More is code-PT.code and PT. Lage' action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]	select m.code	
QUERY OUTPUT (SCREENSHOT) WMySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) iddact, is code from Norte is, "Productings PT after is a code-PT, code and PT, tase" action? Profiling [Edit inline] [Edit] [Explain SQL.] [Create PHP code.] [Refrest]	from Movie m, ProductTags PT	
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]	where m.code=PT.code and PT.tag='action'	
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.) select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action' Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]	QUERY OUTPUT (SCREENSHOT)	
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		econds.)
	select m. code from Movie m, ProductTags PT where m. code=PT. code and PT. tag='action'	
code		Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
	code	

Query 2: Find all accounts registered between January 1st, 2014 and January 1st, 2016





Query 3: Find the product, which has casted 'Brad Pitt', that has been watched the most times

QUERY SQL SELECT P.code From CastMember CM, Acts A, Watches W, Product P Where CM.firstName="Brad" and CM.lastname="Pitt" and A.id=CM.id and W.code=A.code and P.code=W.code group by P.code Having count(*) >=ALL(select count(*) from Watches group by Watches.code QUERY OUTPUT (SCREENSHOT) SELECT P. code From CastMember CM, Acts A, Watches W, Product P Where CM. firstName="Brad" and CM. lastname="Pitt" and A. id=CM. id and W. code=A. code and P. code=W. code group by P. code Having count(*) >=ALL(select count(*) from Watches group by Watches. code) Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresl ☐ Show all Number of rows: 25 ▼ Filter rows: Search this table + Options $\leftarrow T \rightarrow$ code ☐ **∂** Edit **¾** Copy **⑤** Delete 20

Query 4: Find all cast members who have acted in a TV show episode, but have not acted in a movie

```
QUERY SQL
SELECT DISTINCT CM.*
From CastMember CM, Acts A, TVShow TV
WHERE CM.id=A.id AND TV.code=A.code AND A.code NOT IN
                                   (SELECT M.code FROM Movie M)
```



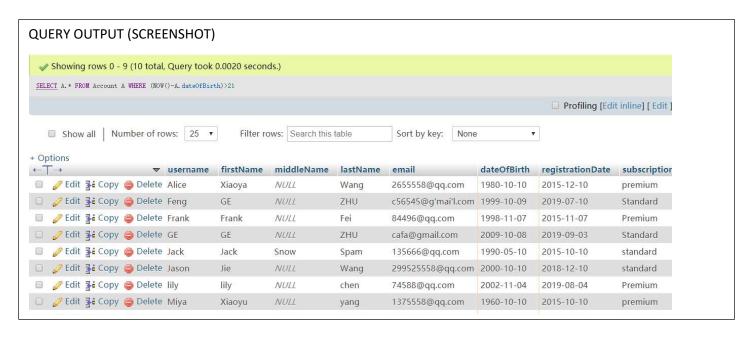
Query 5: Find the TV show with the longest cumulative runtime

```
QUERY SQL
SELECT DISTINCT P.*
FROM Product P, TVShow TV, Episode E
WHERE P.code = TV.code AND TV.code= E.code
GROUP BY E.code
HAVING SUM(E.runtime)>=
          ALL (
              SELECT SUM(E1.runtime)
              FROM Episode E1
              GROUP BY E1.code)
```



Query 6: Find all accounts where the owner is older than 21 years old. (Note: This need to be correct at the time the query is run)





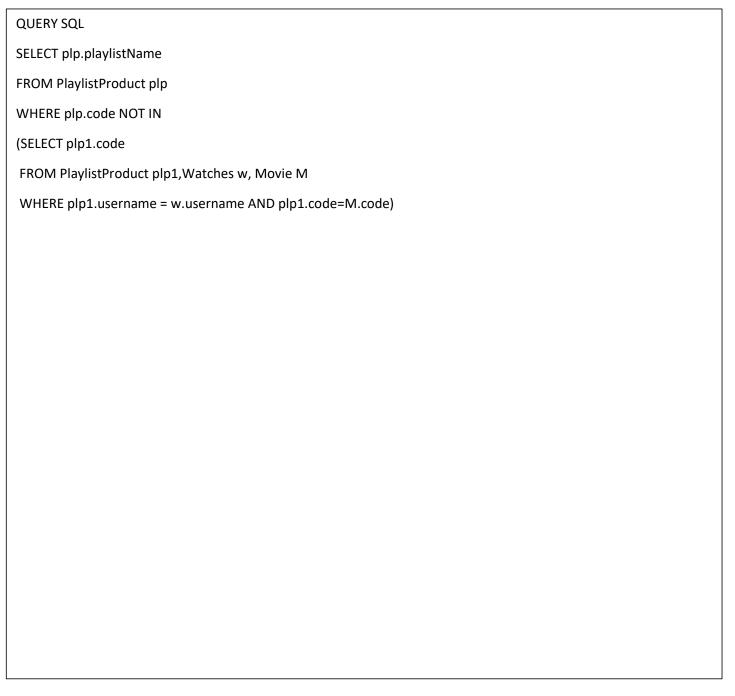
Query 7: Find all playlists that do not contain a product that aired after January 1st, 2012

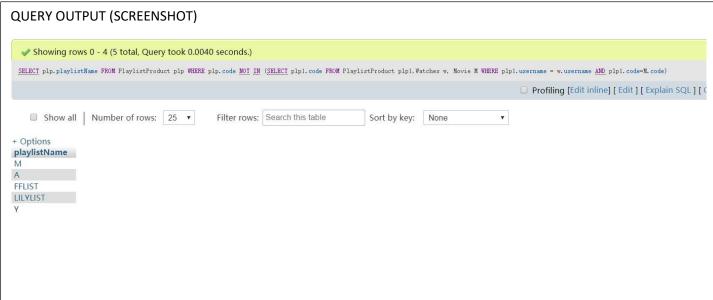
Query 7.1 mid an playingto that do not cont	ann a product that aned arter January 13t, 2012
QUERY SQL	
SELECT *	
FROM Playlist	
WHERE username IN(
SELECT username	
FROM PlaylistProdu	uct AS plp
WHERE NOT EXISTS	5(
	SELECT *
	FROM PlaylistProduct
	WHERE username=plp.username AND code IN(
	SELECT P.code
	FROM Product AS P
	WHERE P.code IN(
	SELECT code
	FROM Movie
	WHERE dateOfRelease>='2012-01-01')
	OR P.code IN(
	SELECT code
	FROM Episode
	WHERE dateOfRelease >='2012-01-01')
)
)
)
QUERY OUTPUT (SCREENSHOT)	
Showing rows 0 - 0 (1 total, Query took 0.0064 seconds.) SELECT * FROM Playlist WHERE username IM(SELECT username FROM PlaylistProd	duct AS plp WHERE NOI EXISIS(SELECT * FROM PlaylistProduct WHERE username=plp.username AND code IN(SELECT P.code FROM Product AS P WHERE code IN(SELECT P.code FROM Product AS P WHERE code IN(SELECT P.code FROM Product AS P WHERE code IN(SELECT P.code FROM Product AS P WHERE code IN(SELECT P.code FROM Product AS P WHERE CODE IN(SELECT P.code FROM Product AS P WHERE PRODUCT P.C. P.C. P.C. P.C. P.C. P.C. P.C. P.
P. code IN(SELECT code FROM Movie WHERE dateOfRelease)= 2012-01-01') OR P. c	ode IN(SELECT code FROM Episode WHERE dateOfficease >= '2012-01-01'))) Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refre
☐ Show all Number of rows: 25 ▼ Filter rows: Sea	arch this table
+ Options ← T → wsername playlistName	
□ Ø Edit ∰ Copy ⊜ Delete yaya Y	

Query 8: Find all movies that are the third move in their franchise (i.e. at least the sequel of a sequel)

QUERY SQL
SELECT P.title
FROM Product P
WHERE P.code IN
(SELECT M3.code
FROM Movie M3, Movie M2
WHERE M3.code=M2.sequelCode AND M2.code IN
(SELECT M1.code
FROM Movie M1, Movie M
where M1.code=M.sequelCode and M.code
IN
(SELECT M4.code from Movie M4
where M4.code not in
(SELECT M0.sequelCode
FROM Movie M0
WHERE M0.sequelCode is not NULL)))
)
QUERY OUTPUT (SCREENSHOT)
Select M4. code from Movie M4 where M4. code not in (SELECT M3. code=RC M3. where M4. code FROM Movie M2 where M4. code in (SELECT M4. code FROM Movie M4 where M4. code not in (SELECT M3. code=RC M4. code in (SELECT M4. code in Movie M4 where M4. code not in (SELECT M3. sequelCode FROM Movie M6. code in M7. cod
□ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Ref
■ Show all Number of rows: 25 ▼ Filter rows: Search this table
+ Options title Bridget Jones's Baby
✓ Showing rows 0 - 0 (1 total, Query took 0.0127 seconds.)
SELECI M3. code FROM Movie M3, Novie M2 VHERE M3. code=M2. sequelCode AND M2. code IN (SELECT M1. code FROM Movie M1 , Novie M where M1. code=M. sequelCode and M. code IN (SELECT M4. code from Movie M4 where M4. code not in (SELECT M0. sequelCode FROM Movie M0 WHERE M0. sequelCode is not NULL)))
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Re
■ Show all Number of rows: 25 ▼ Filter rows: Search this table
+ Options

Query 9: Find all playlists which contain a movie that the account owner has not watched





Query 10: Find which account(s) have watched at least all the products that 'Idris Elba' has been cast in

```
QUERY SQL
SELECT A.*
FROM Account A
WHERE
NOT EXISTS
    (SELECT AC.code
    from Acts AC, CastMember CM
    where AC.id= CM.id and CM.firstName="Idris" AND CM.lastName ="Elba"
    AND not exists
        (select W.code
         from Watches W
         WHERE W.username=A.username and W.code=AC.code)
            )
```

