Project 3: SQL – Mom and Pop Database

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UMGC: University of Maryland Global Campus

CMSC 320: Relational Database Concepts and Applications

7/23/2024

Screenshots For SQL: Queries A and Results

Note: This is regarding the File: Lee_PROJ3_PART_C.sql

Disclaimer: You must run statements only and not auto-run the whole script file as all five queries include other tests from the beginning of the code.

Revisions: Since I changed the tables and modified it so that it would run correctly here is the updated Diagram order.

Customer → CustomerMovie → Movies

Movies → DistributorProducer

Movies → Actors

Movies → Actresses

Movies → Directors

Movies → Media

Movies → Awards

Awards → Actors

Awards → Actresses

Awards → Director

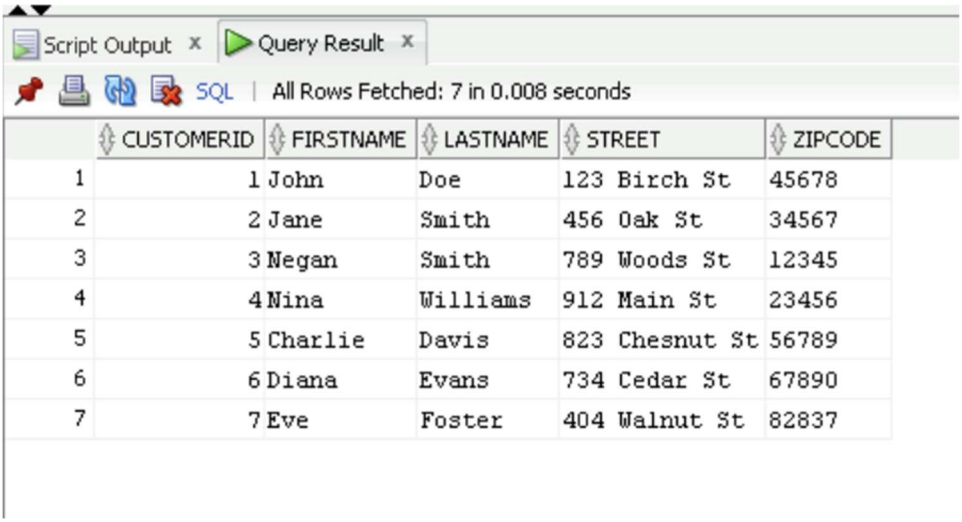
Media → DVD_Type

Media → VCR_Type

I also removed the two primary keys and made them into one for simplification. This is because the extra primary keys made it into a composite primary key that was not the design, I intended to do in project 2, so I modified it to make it more for what I wanted the design to be. I also removed some keys due to repetitiveness and introduced newer ones. For instance, the Media table has different keys and I also split Actors, actresses, and Directors into tables.

1. **Query & Result 1:** Retrieve all of your customers' names, account numbers, and addresses (street and zip code only), sorted by account number.

Generic Version:

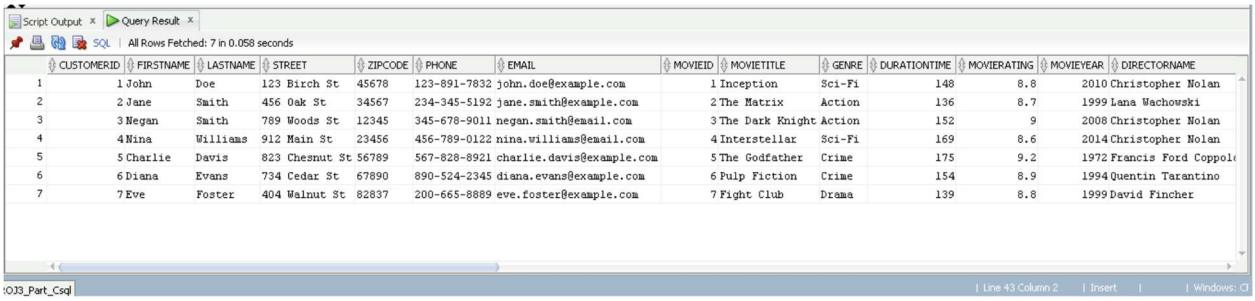


Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.008 seconds

	CUSTOMERID	FIRSTNAME	LASTNAME	STREET	ZIPCODE
1	1	John	Doe	123 Birch St	45678
2	2	Jane	Smith	456 Oak St	34567
3	3	Negan	Smith	789 Woods St	12345
4	4	Nina	Williams	912 Main St	23456
5	5	Charlie	Davis	823 Chesnut St	56789
6	6	Diana	Evans	734 Cedar St	67890
7	7	Eve	Foster	404 Walnut St	82837

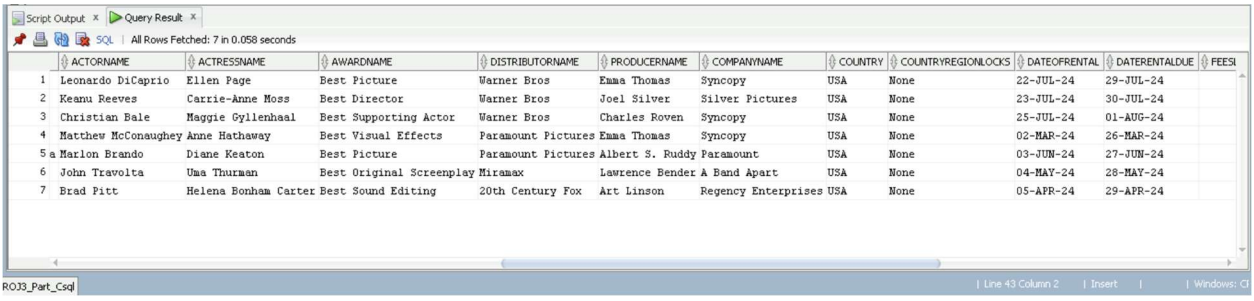
Detailed Version (Scrolling to the right):



Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.058 seconds

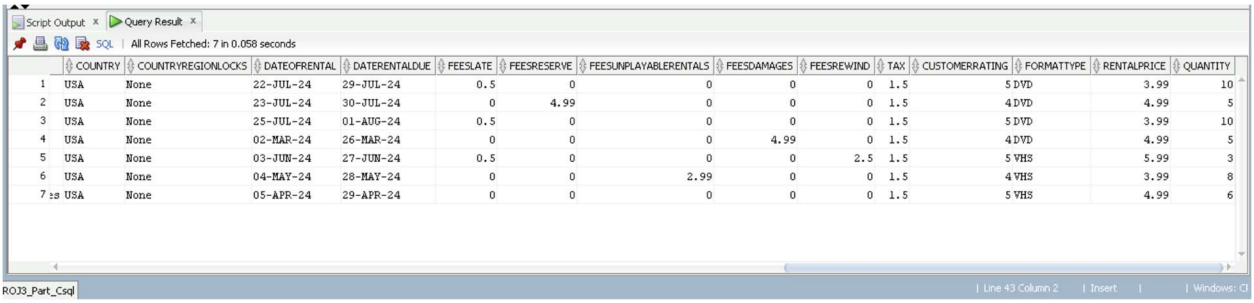
	CUSTOMERID	FIRSTNAME	LASTNAME	STREET	ZIPCODE	PHONE	EMAIL	MOVIEID	MOVIETITLE	GENRE	DURATIONTIME	MOVIERATING	MOVIEYEAR	DIRECTORNAME
1	1	John	Doe	123 Birch St	45678	123-891-7832	john.doe@example.com	1	Inception	Sci-Fi	148	8.8	2010	Christopher Nolan
2	2	Jane	Smith	456 Oak St	34567	234-345-5192	jane.smith@example.com	2	The Matrix	Action	136	8.7	1999	Lana Wachowski
3	3	Negan	Smith	789 Woods St	12345	345-678-9011	negan.smith@email.com	3	The Dark Knight	Action	152	9	2008	Christopher Nolan
4	4	Nina	Williams	912 Main St	23456	456-789-0122	nina.williams@email.com	4	Interstellar	Sci-Fi	169	8.6	2014	Christopher Nolan
5	5	Charlie	Davis	823 Chesnut St	56789	567-828-8921	charlie.davis@example.com	5	The Godfather	Crime	175	9.2	1972	Francis Ford Coppol
6	6	Diana	Evans	734 Cedar St	67890	890-524-2345	diana.evans@example.com	6	Pulp Fiction	Crime	154	8.9	1994	Quentin Tarantino
7	7	Eve	Foster	404 Walnut St	82837	200-665-8889	eve.foster@example.com	7	Fight Club	Drama	139	8.8	1999	David Fincher



Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.058 seconds

	ACTORNAME	ACTRESSNAME	AWARDNAME	DISTRIBUTORNAME	PRODUCERNAME	COMPANYNAME	COUNTRY	COUNTRYREGIONLOCKS	DATEOFRENTAL	DATERENTALDUE	FEESI
1	Leonardo DiCaprio	Ellen Page	Best Picture	Warner Bros	Emma Thomas	Syncopy	USA	None	22-JUL-24	29-JUL-24	
2	Keanu Reeves	Carrie-Anne Moss	Best Director	Warner Bros	Joel Silver	Silver Pictures	USA	None	23-JUL-24	30-JUL-24	
3	Christian Bale	Maggie Gyllenhaal	Best Supporting Actor	Warner Bros	Charles Roven	Syncopy	USA	None	25-JUL-24	01-AUG-24	
4	Matthew McConaughey	Anne Hathaway	Best Visual Effects	Paramount Pictures	Emma Thomas	Syncopy	USA	None	02-MAR-24	26-MAR-24	
5	a Marlon Brando	Diane Keaton	Best Picture	Paramount Pictures	Albert S. Ruddy	Paramount	USA	None	03-JUN-24	27-JUN-24	
6	John Travolta	Uma Thurman	Best Original Screenplay	Miramax	Lawrence Bender	A Band Apart	USA	None	04-MAY-24	28-MAY-24	
7	Brad Pitt	Helena Bonham Carter	Best Sound Editing	20th Century Fox	Art Linson	Regency Enterprises	USA	None	05-APR-24	29-APR-24	


Script Output | Query Result | All Rows Fetched: 7 in 0.058 seconds

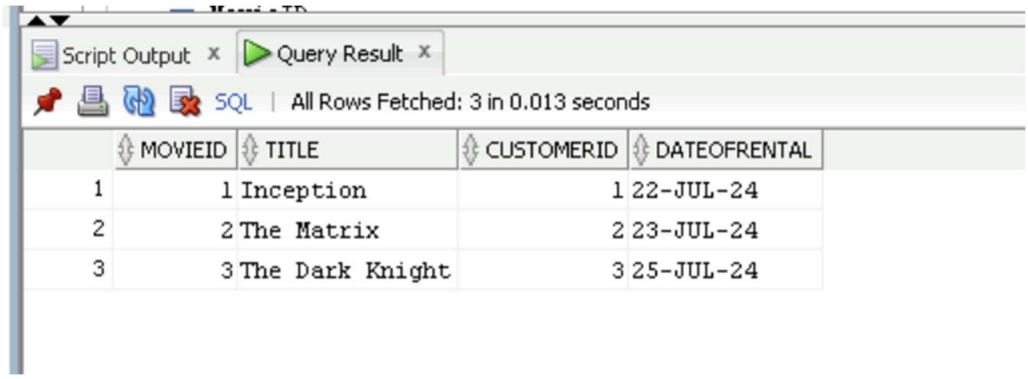
	COUNTRY	COUNTRYREGIONLOCKS	DATEOFRENTAL	DATERENTALDUE	FEESLATE	FEESRESERVE	FEESUNPLAYABLERENTALS	FEESDAMAGES	FEESREWIND	TAX	CUSTOMERRATING	FORMATTYPE	RENTALPRICE	QUANTITY
1	USA	None	22-JUL-24	29-JUL-24	0.5	0	0	0	0	1.5	5	DVD	3.99	10
2	USA	None	23-JUL-24	30-JUL-24	0	4.99	0	0	0	1.5	4	DVD	4.99	5
3	USA	None	25-JUL-24	01-AUG-24	0.5	0	0	0	0	1.5	5	DVD	3.99	10
4	USA	None	02-MAR-24	26-MAR-24	0	0	0	4.99	0	1.5	4	DVD	4.99	5
5	USA	None	03-JUN-24	27-JUN-24	0.5	0	0	0	2.5	1.5	5	VHS	5.99	3
6	USA	None	04-MAY-24	28-MAY-24	0	0	2.99	0	0	1.5	4	VHS	3.99	8
7	USA	None	05-APR-24	29-APR-24	0	0	0	0	0	1.5	5	VHS	4.99	6

ROJ3_Part_Csql | Line 43 Column 2 | Insert | Windows: CI

2. **Query & Result 2:** Retrieve all of the videos rented in the last 30 days and sort in chronological rental date order.

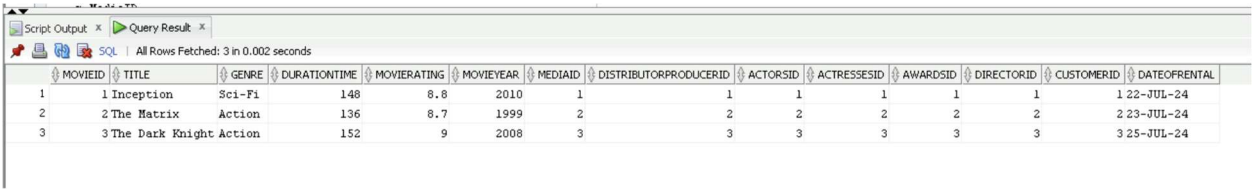
Note: Should pop up only 3 movies out of 7 total as the other 4 are not within July

Generic Version:


Script Output | Query Result | All Rows Fetched: 3 in 0.013 seconds

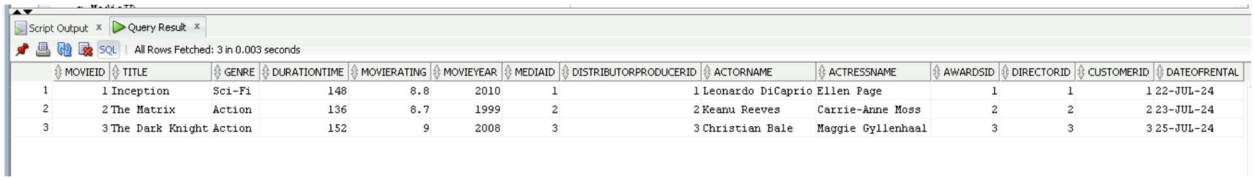
	MOVIEID	TITLE	CUSTOMERID	DATEOFRENTAL
1	1	Inception	1	22-JUL-24
2	2	The Matrix	2	23-JUL-24
3	3	The Dark Knight	3	25-JUL-24

Detailed Version 1:


Script Output | Query Result | All Rows Fetched: 3 in 0.002 seconds

	MOVIEID	TITLE	GENRE	DURATIONTIME	MOVIERATING	MOVIEYEAR	MEDIAID	DISTRIBUTORPRODUCERID	ACTORSID	ACTRESSESID	AWARDSID	DIRECTORID	CUSTOMERID	DATEOFRENTAL
1	1	Inception	Sci-Fi	148	8.8	2010	1	1	1	1	1	1	1	22-JUL-24
2	2	The Matrix	Action	136	8.7	1999	2	2	2	2	2	2	2	23-JUL-24
3	3	The Dark Knight	Action	152	9	2008	3	3	3	3	3	3	3	25-JUL-24

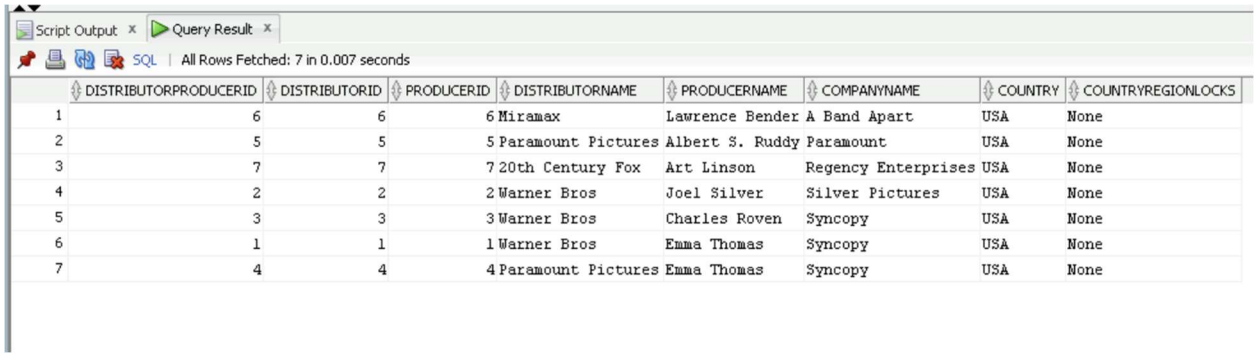
Detailed Version 2:


Script Output | Query Result | All Rows Fetched: 3 in 0.003 seconds

	MOVIEID	TITLE	GENRE	DURATIONTIME	MOVIERATING	MOVIEYEAR	MEDIAID	DISTRIBUTORPRODUCERID	ACTORNAME	ACTRESSNAME	AWARDSID	DIRECTORID	CUSTOMERID	DATEOFRENTAL
1	1	Inception	Sci-Fi	148	8.8	2010	1	1	Leonardo DiCaprio	Ellen Page	1	1	1	22-JUL-24
2	2	The Matrix	Action	136	8.7	1999	2	2	Keanu Reeves	Carrie-Anne Moss	2	2	2	23-JUL-24
3	3	The Dark Knight	Action	152	9	2008	3	3	Christian Bale	Maggie Gyllenhaal	3	3	3	25-JUL-24

3. **Query & Result 3:** Produce a list of your distributors and all their information sorted in order by company name.

Generic Version:

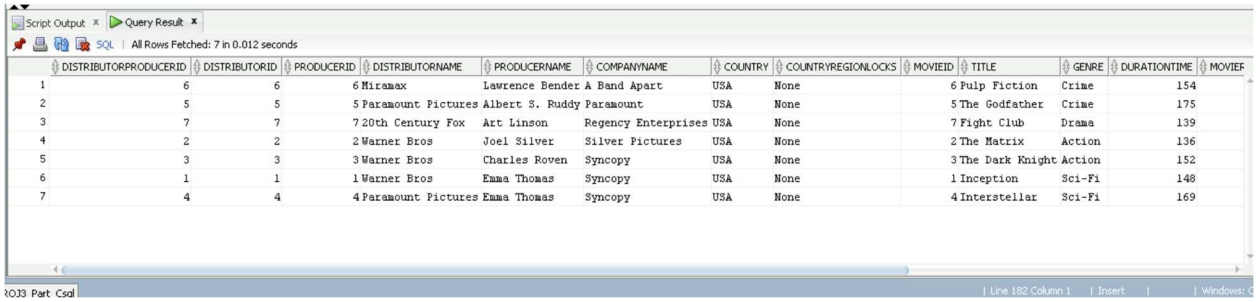


Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.007 seconds

	DISTRIBUTORPRODUCERID	DISTRIBUTORID	PRODUCERID	DISTRIBUTORNAME	PRODUCERNAME	COMPANYNAME	COUNTRY	COUNTRYREGIONLOCKS
1	6	6	6	Miramax	Lawrence Bender	A Band Apart	USA	None
2	5	5	5	Paramount Pictures	Albert S. Ruddy	Paramount	USA	None
3	7	7	7	20th Century Fox	Art Linson	Regency Enterprises	USA	None
4	2	2	2	Warner Bros	Joel Silver	Silver Pictures	USA	None
5	3	3	3	Warner Bros	Charles Roven	Syncopy	USA	None
6	1	1	1	Warner Bros	Emma Thomas	Syncopy	USA	None
7	4	4	4	Paramount Pictures	Emma Thomas	Syncopy	USA	None

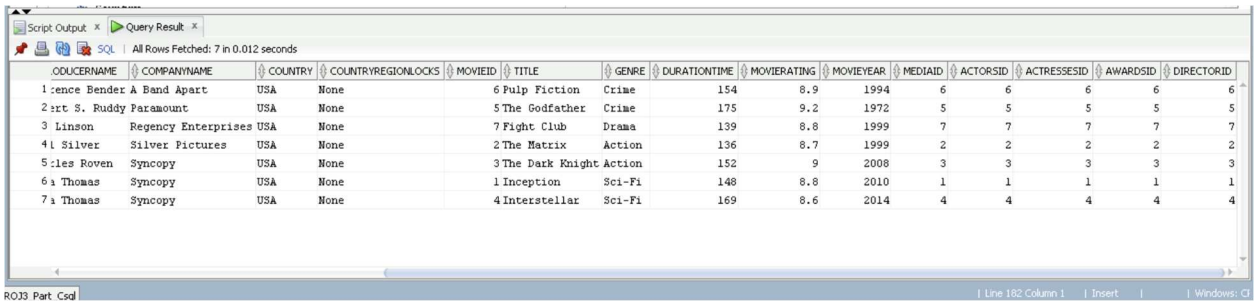
Detailed Version:



Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.012 seconds

	DISTRIBUTORPRODUCERID	DISTRIBUTORID	PRODUCERID	DISTRIBUTORNAME	PRODUCERNAME	COMPANYNAME	COUNTRY	COUNTRYREGIONLOCKS	MOVIEID	TITLE	GENRE	DURATIONTIME	MOVIER
1	6	6	6	Miramax	Lawrence Bender	A Band Apart	USA	None	6	Pulp Fiction	Crime	154	
2	5	5	5	Paramount Pictures	Albert S. Ruddy	Paramount	USA	None	5	The Godfather	Crime	175	
3	7	7	7	20th Century Fox	Art Linson	Regency Enterprises	USA	None	7	Fight Club	Drama	139	
4	2	2	2	Warner Bros	Joel Silver	Silver Pictures	USA	None	2	The Matrix	Action	136	
5	3	3	3	Warner Bros	Charles Roven	Syncopy	USA	None	3	The Dark Knight	Action	152	
6	1	1	1	Warner Bros	Emma Thomas	Syncopy	USA	None	1	Inception	Sci-Fi	148	
7	4	4	4	Paramount Pictures	Emma Thomas	Syncopy	USA	None	4	Interstellar	Sci-Fi	169	

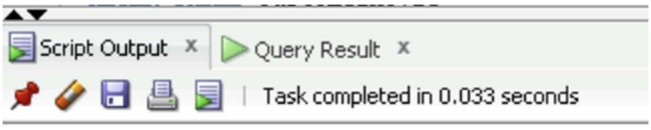


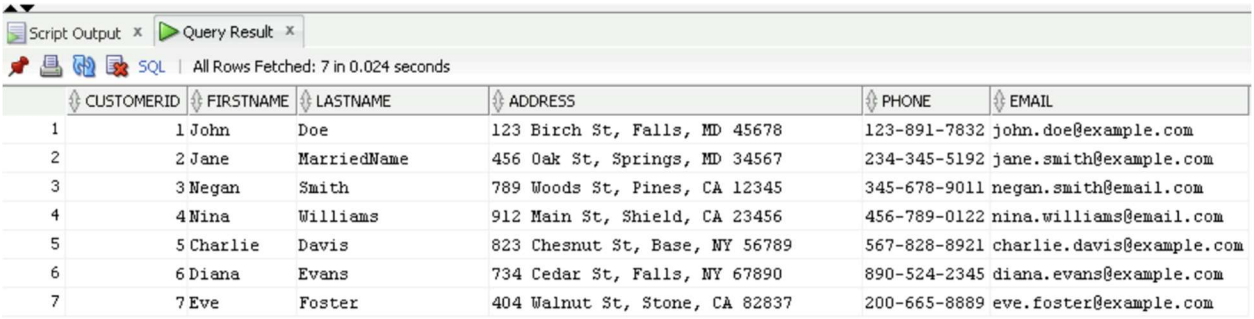
Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.012 seconds

	ODUCERNAME	COMPANYNAME	COUNTRY	COUNTRYREGIONLOCKS	MOVIEID	TITLE	GENRE	DURATIONTIME	MOVIERATING	MOVIEYEAR	MEDIAID	ACTORSID	ACTRESSESID	AWARDSID	DIRECTORID
1	ence Bender	A Band Apart	USA	None	6	Pulp Fiction	Crime	154	8.9	1994	6	6	6	6	6
2	ert S. Ruddy	Paramount	USA	None	5	The Godfather	Crime	175	9.2	1972	5	5	5	5	5
3	Linson	Regency Enterprises	USA	None	7	Fight Club	Drama	139	8.8	1999	7	7	7	7	7
4	l Silver	Silver Pictures	USA	None	2	The Matrix	Action	136	8.7	1999	2	2	2	2	2
5	les Roven	Syncopy	USA	None	3	The Dark Knight	Action	152	9	2008	3	3	3	3	3
6	a Thomas	Syncopy	USA	None	1	Inception	Sci-Fi	148	8.8	2010	1	1	1	1	1
7	a Thomas	Syncopy	USA	None	4	Interstellar	Sci-Fi	169	8.6	2014	4	4	4	4	4

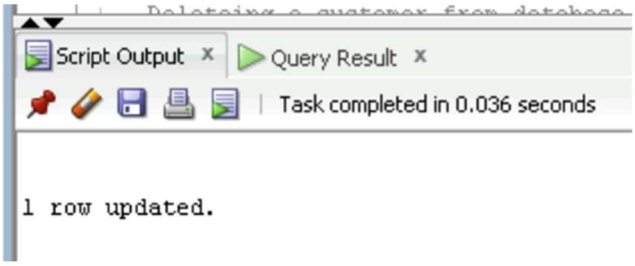
4. **Query & Result 4:** Update a customer name to change their maiden name to a married name. You can choose which row to update. Make sure that you use the primary key column in your WHERE clause to affect only a specific row. You may want to include a ROLLBACK statement to undo your data update.





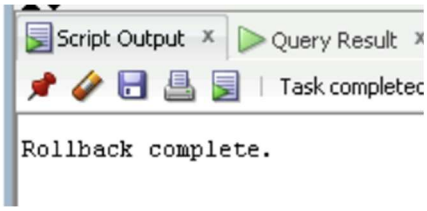
	CUSTOMERID	FIRSTNAME	LASTNAME	ADDRESS	PHONE	EMAIL
1	1	John	Doe	123 Birch St, Falls, MD 45678	123-891-7832	john.doe@example.com
2	2	Jane	MarriedName	456 Oak St, Springs, MD 34567	234-345-5192	jane.smith@example.com
3	3	Negan	Smith	789 Woods St, Pines, CA 12345	345-678-9011	negan.smith@email.com
4	4	Nina	Williams	912 Main St, Shield, CA 23456	456-789-0122	nina.williams@email.com
5	5	Charlie	Davis	823 Chesnut St, Base, NY 56789	567-828-8921	charlie.davis@example.com
6	6	Diana	Evans	734 Cedar St, Falls, NY 67890	890-524-2345	diana.evans@example.com
7	7	Eve	Foster	404 Walnut St, Stone, CA 82837	200-665-8889	eve.foster@example.com

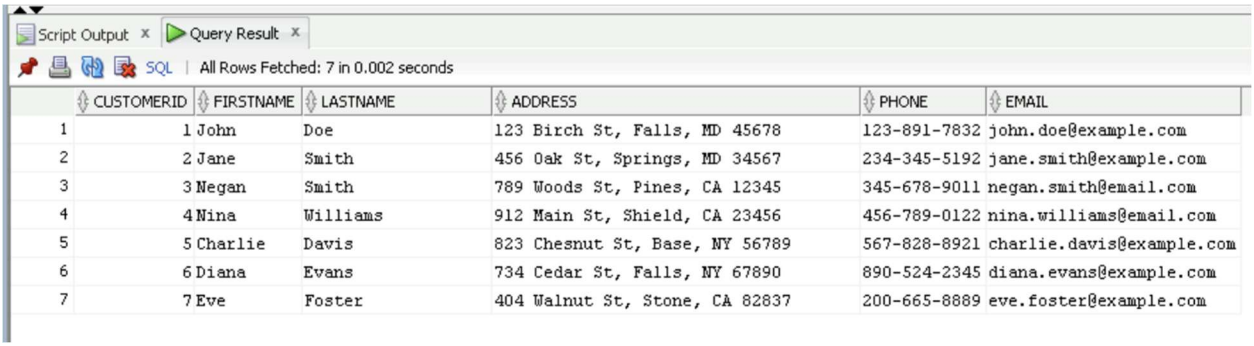
ROLLBACK/REVERT to Original:



Using SELECT * FROM Customer; from Checking Queries Tests:

	CUSTOMERID	FIRSTNAME	LASTNAME	ADDRESS	PHONE	EMAIL
1	1	John	Doe	123 Birch St, Falls, MD 45678	123-891-7832	john.doe@example.com
2	2	Jane	Smith	456 Oak St, Springs, MD 34567	234-345-5192	jane.smith@example.com
3	3	Negan	Smith	789 Woods St, Pines, CA 12345	345-678-9011	negan.smith@email.com
4	4	Nina	Williams	912 Main St, Shield, CA 23456	456-789-0122	nina.williams@email.com
5	5	Charlie	Davis	823 Chesnut St, Base, NY 56789	567-828-8921	charlie.davis@example.com
6	6	Diana	Evans	734 Cedar St, Falls, NY 67890	890-524-2345	diana.evans@example.com
7	7	Eve	Foster	404 Walnut St, Stone, CA 82837	200-665-8889	eve.foster@example.com



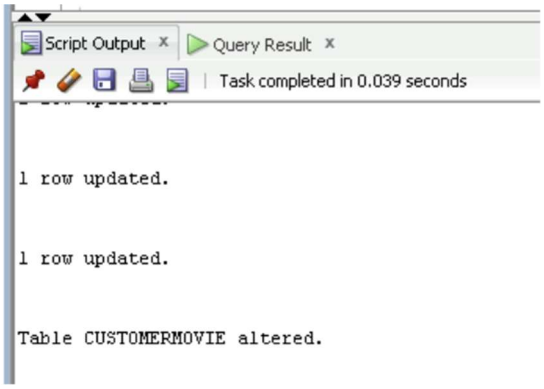

Script Output | Query Result

SQL | All Rows Fetched: 7 in 0.002 seconds

	CUSTOMERID	FIRSTNAME	LASTNAME	ADDRESS	PHONE	EMAIL
1	1	John	Doe	123 Birch St, Falls, MD 45678	123-891-7832	john.doe@example.com
2	2	Jane	Smith	456 Oak St, Springs, MD 34567	234-345-5192	jane.smith@example.com
3	3	Negan	Smith	789 Woods St, Pines, CA 12345	345-678-9011	negan.smith@email.com
4	4	Nina	Williams	912 Main St, Shield, CA 23456	456-789-0122	nina.williams@email.com
5	5	Charlie	Davis	823 Chesnut St, Base, NY 56789	567-828-8921	charlie.davis@example.com
6	6	Diana	Evans	734 Cedar St, Falls, NY 67890	890-524-2345	diana.evans@example.com
7	7	Eve	Foster	404 Walnut St, Stone, CA 82837	200-665-8889	eve.foster@example.com

5. **Query & Result 5:** Delete a customer from the database. You can choose which row to delete. Make sure that you use the primary key column in your WHERE clause to affect only a specific row. You may want to include a ROLLBACK statement to undo your data deletion.

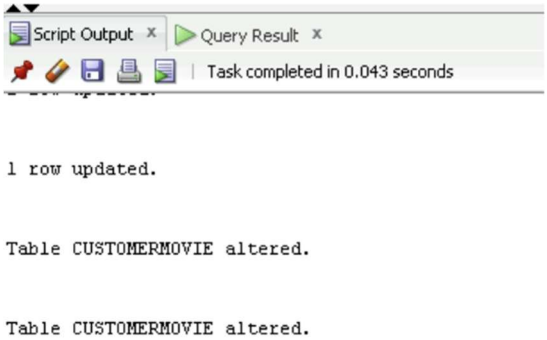
Step 1:


Script Output | Query Result

Task completed in 0.039 seconds

```
1 row updated.

1 row updated.

Table CUSTOMERMOVIE altered.
```

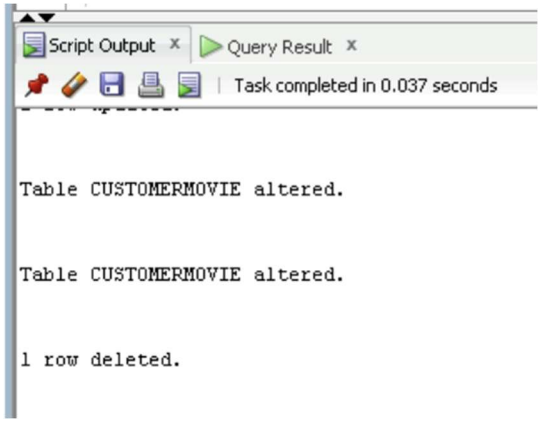
Step 2:


Script Output | Query Result

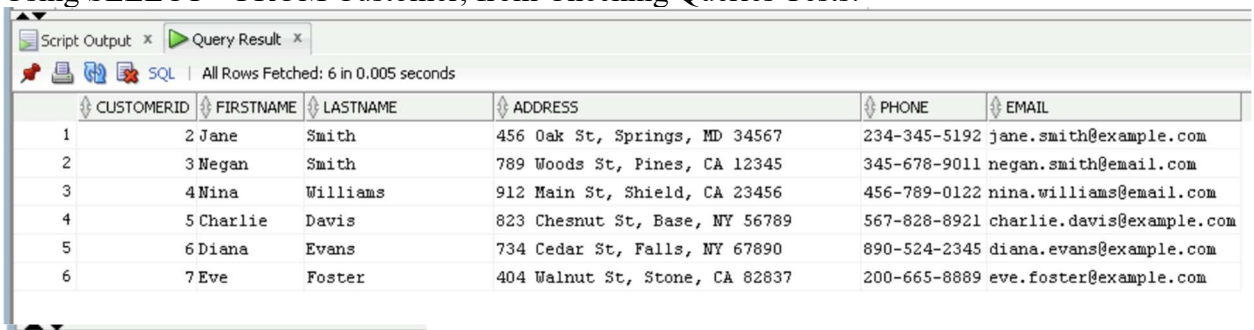
Task completed in 0.043 seconds

```
1 row updated.

Table CUSTOMERMOVIE altered.

Table CUSTOMERMOVIE altered.
```

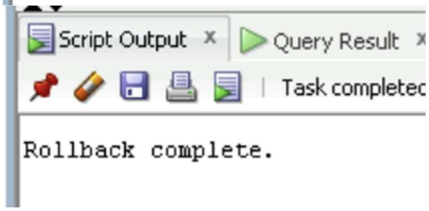
Step 3:

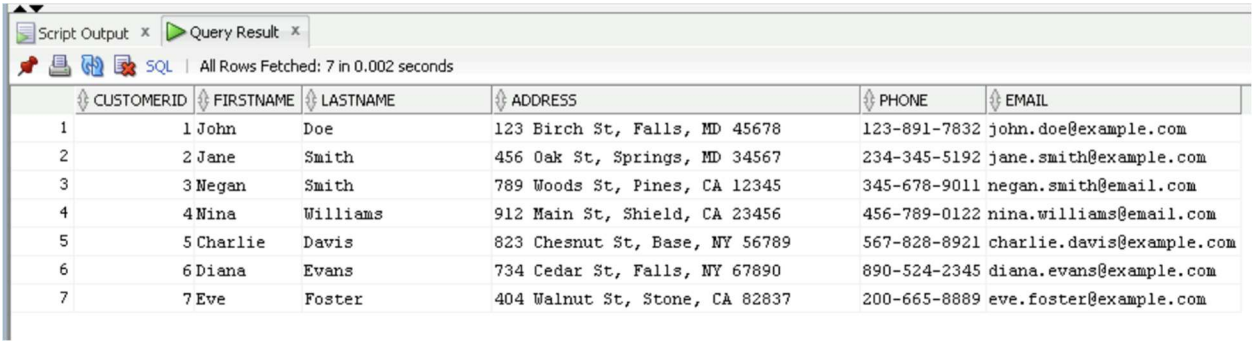


Using SELECT * FROM Customer; from Checking Queries Tests:



	CUSTOMERID	FIRSTNAME	LASTNAME	ADDRESS	PHONE	EMAIL
1	2	Jane	Smith	456 Oak St, Springs, MD 34567	234-345-5192	jane.smith@example.com
2	3	Negan	Smith	789 Woods St, Pines, CA 12345	345-678-9011	negan.smith@email.com
3	4	Nina	Williams	912 Main St, Shield, CA 23456	456-789-0122	nina.williams@email.com
4	5	Charlie	Davis	823 Chesnut St, Base, NY 56789	567-828-8921	charlie.davis@example.com
5	6	Diana	Evans	734 Cedar St, Falls, NY 67890	890-524-2345	diana.evans@example.com
6	7	Eve	Foster	404 Walnut St, Stone, CA 82837	200-665-8889	eve.foster@example.com





	CUSTOMERID	FIRSTNAME	LASTNAME	ADDRESS	PHONE	EMAIL
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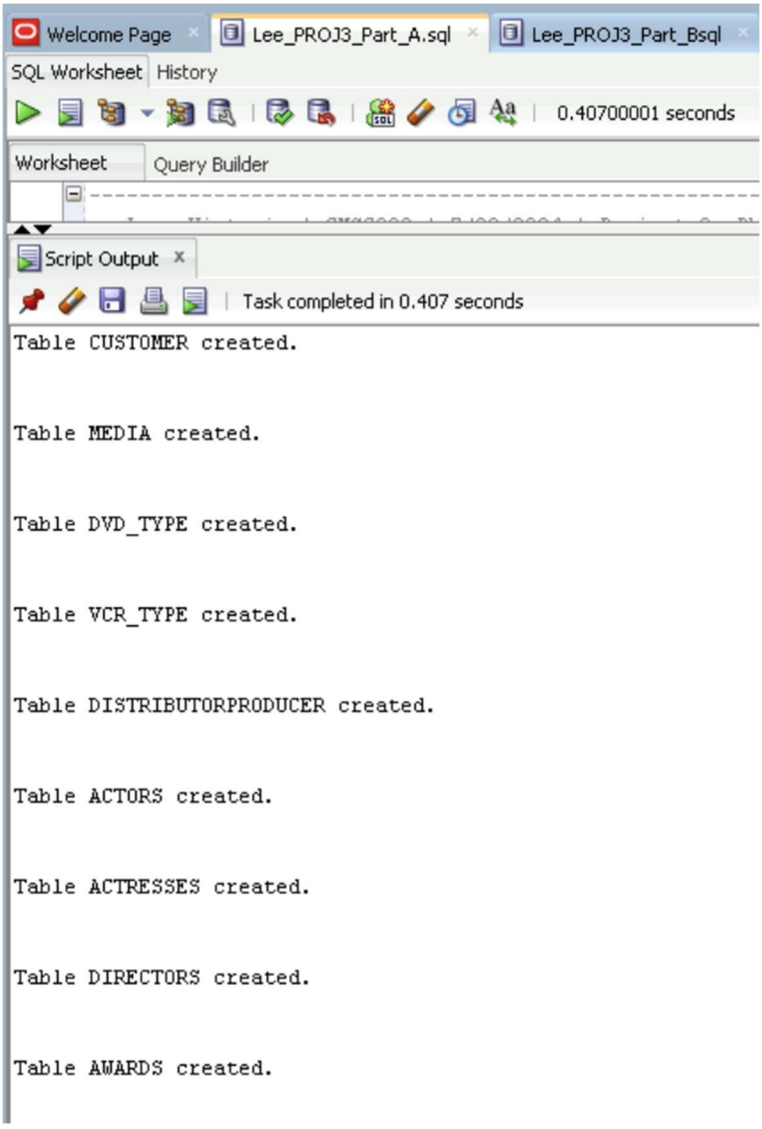
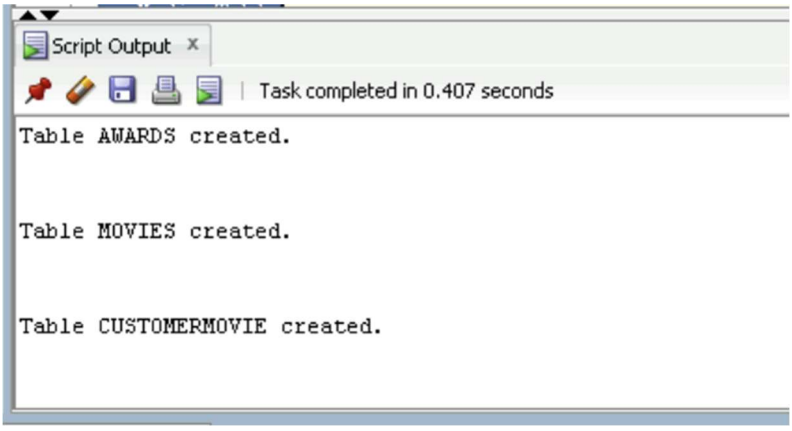
2	2	Jane	Smith	456 Oak St, Springs, MD 34567	234-345-5192	jane.smith@example.com
3	3	Negan	Smith	789 Woods St, Pines, CA 12345	345-678-9011	negan.smith@email.com
4	4	Nina	Williams	912 Main St, Shield, CA 23456	456-789-0122	nina.williams@email.com
5	5	Charlie	Davis	823 Chesnut St, Base, NY 56789	567-828-8921	charlie.davis@example.com
6	6	Diana	Evans	734 Cedar St, Falls, NY 67890	890-524-2345	diana.evans@example.com
7	7	Eve	Foster	404 Walnut St, Stone, CA 82837	200-665-8889	eve.foster@example.com

Screenshots for Part A and Part B Results (Correct Runs)

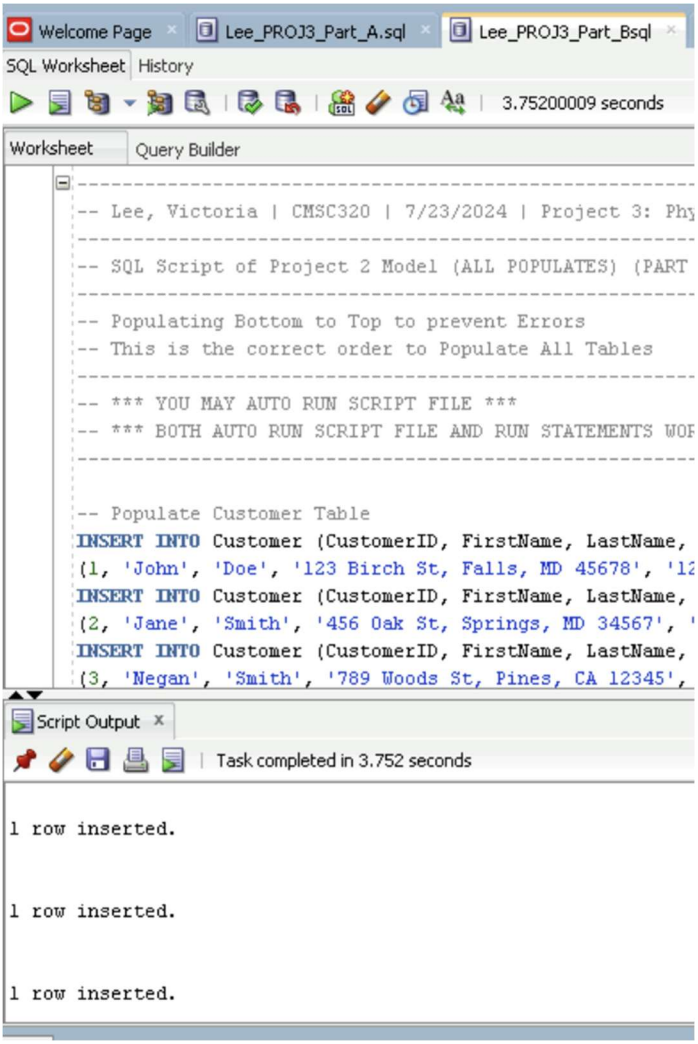
1. Part A (Lee_PROJ3_PART_A.sql):





2. Part B (Lee_PROJ3_PART_B.sql):

Note: I did not show all of the “rows added as it was quite long. It should run correctly and repeat for the other rows to add.



References

Oracle Academy. (2020). *Oracle Tutorials*. Retrieved from UMGC. https://leocontent.umgc.edu/content/dam/course-content/tus/cmis/cmis-320/document/DD_3_2_Week2_ER%20Diagramming%20Conventions.pdf?ou=1176371

UMGC Leo Content. (n.d.). *Select SQL Examples*. Retrieved from UMGC. https://leocontent.umgc.edu/content/umuc/tus/cmis/cmis320/2228/weeks/week-60/select-sql-example.html?ou=1176371

UMGC Leo Content. (n.d.). *SQL Examples*. Retrieved from UMGC. https://leocontent.umgc.edu/content/umuc/tus/cmis/cmis320/2228/weeks/week-60/sql.html?ou=1176371

Oracle Academy. (2020). *Oracle Functions*. Retrieved from UMGC. https://docs.oracle.com/cd/E11882_01/server.112/e41084/functions.htm#SQLRF006

YouTube. (2017). *Difference between conceptual logical and physical data model* [Video]. Retrieved from YouTube. Watch the video. https://youtu.be/RJ9TpkWKyU0?si=HqBwnNHAZ5vlPl3w

YouTube. (2018). *Oracle - SQL - Select Statement* [Video]. Retrieved from YouTube. Watch the video. https://youtu.be/eGR5rlXWHG0?si=jMbKjjz76F3lmgtA

YouTube. (2019). *What is the SQL Language?* [Video]. Retrieved from YouTube. Watch the video. https://youtu.be/Bn-nTzkhEpQ?si=dWUzlKgctadpLTEz