

- 1) Write some SQL queries to return a lists of films that meet the following conditions. Your results tables should include the columns “film_ID,” “title,” and “description”. Download your SQL queries outputs as CSV files using the pgadmin inbuilt functionality. Merge them into one Excel file (.xlsx) and create a separate sheet for each query (label them 1a, 1b, 1c, etc.). You’ll use this file for all further questions in this Task too.

Film title contains the word *Uptown* in any position

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT film_id, title, description	film_id [PK] integer	title character varying (255)	description text	
2	FROM film				
3	WHERE title LIKE '%Uptown%';				
4					
		1	132	Chainsaw Uptown	A Beautiful Documentary of a Boy And a Robot who mus
		2	207	Dangerous Uptown	A Unbelievable Story of a Mad Scientist And a Woman
		3	927	Uprising Uptown	A Fanciful Reflection of a Boy And a Butler who must Pu
		4	928	Uptown Young	A Fateful Documentary of a Dog And a Hunter who must

Film length is more than 120 minutes and rental rate is more than 2.99

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT film_id, title, description	film_id [PK] integer	title character varying (255)	description text	
2	FROM film				
3	WHERE length > 120				
4	AND rental_rate > 2.99;				
		1	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocod
		2	21	American Circus	A Insightful Drama of a Girl And a Astronaut who
		3	265	Dying Maker	A Intrepid Tale of a Boat And a Monkey who must
		4	47	Baby Hall	A Boring Character Study of a A Shark And a Girl v
		5	126	Casualties Encino	A Insightful Yarn of a A Shark And a Pastry Chef v
		6	61	Beauty Grease	A Fast-Paced Display of a Composer And a Moos
		7	68	Betrayed Rear	A Emotional Character Study of a Boat And a Pior
		8	70	Bikini Borrowers	A Astounding Drama of a Astronaut And a Cat wh
		9	74	Birch Antitrust	A Fanciful Panorama of a Husband And a Pioneer
		10	75	Bird Independence	A Thrilling Documentary of a Car And a Student w
		11	86	Boogie Amelie	A Lacklusture Character Study of a Husband And
		12	88	Born Spinal	A Touching Epistle of a Frisbee And a Husband w
		13	93	Brannigan Sunrise	A Amazing Epistle of a Moose And a Crocodile wl
		14	95	Breakfast Goldfinger	A Beautiful Reflection of a Student And a Student
		15	100	Brooklyn Desert	A Beautiful Drama of a Dentist And a Composer v
		16	103	Bucket Brotherhood	A Amazing Display of a Girl And a Womanizer wh
		17	117	Candles Grapes	A Fanciful Character Study of a Monkey And a Ex

Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT	film_id	title		description
2	FROM	film			
3	WHERE	rental_duration > 3			
4	AND	rental_duration < 7			
5	ORDER BY	rental_duration ASC;			
		film_id [PK] integer	title character varying (255)		description text
		1	315	Finding Anaconda	A Fateful Tale of a Database Administrator /
		2	852	Strangelove Desire	A Awe-Inspiring Panorama of a Lumberjack
		3	317	Fireball Philadelphia	A Amazing Yarn of a Dentist And a Shark
		4	319	Fish Opus	A Touching Display of a Feminist And a Girl
		5	320	Flamingos Connecticut	A Fast-Paced Reflection of a Composer And
		6	989	Working Microcosmos	A Stunning Epistle of a Dentist And a Dog w
		7	601	Moulin Wake	A Astounding Story of a Forensic Psycholog
		8	596	Moonshine Cabin	A Thoughtful Display of a Astronaut And a F
		9	329	Forrest Sons	A Thrilling Documentary of a Forensic Psycl
		10	588	Model Fish	A Beautiful Panorama of a Boat And a Croc
		11	586	Mockingbird Hollywood	A Thoughtful Panorama of a Man And a Car
		12	85	Bonnie Holocaust	A Fast-Paced Story of a Crocodile And a Rol
		13	843	Steel Santa	A Fast-Paced Yarn of a Composer And a Fri
		14	585	Mob Duffel	A Unbelievable Documentary of a Frisbee /
		15	581	Minority Kiss	A Insightful Display of a Lumberjack And a S
		16	939	Vertigo Northwest	A Unbelievable Display of a Mad Scientist /
		17	578	Million Ace	A Brilliant Documentary of a Womanizer And

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT	film_id	title		description
2	FROM	film			
3	WHERE	rental_duration			
4	BETWEEN	4 AND 6			
5	ORDER BY	rental_duration ASC;			
		film_id [PK] integer	title character varying (255)		description text
		1	315	Finding Anaconda	A Fateful Tale of a Database Administrator /
		2	852	Strangelove Desire	A Awe-Inspiring Panorama of a Lumberjack
		3	317	Fireball Philadelphia	A Amazing Yarn of a Dentist And a A Shark
		4	319	Fish Opus	A Touching Display of a Feminist And a Girl
		5	320	Flamingos Connecticut	A Fast-Paced Reflection of a Composer And
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		17	578	Million Ace	A Brilliant Documentary of a Womanizer And

Film replacement cost is less than 14.99

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT	film_id	title		description
2	FROM	[PK] integer	character varying (255)		text
3	WHERE				
	replacement_cost < 14.99;				
1		98	Bright Encounters		A Fateful Yarn of a Lumberjack And a Feminist v
2		2	Ace Goldfinger		A Astounding Epistle of a Database Administrat
3		15	Alien Center		A Brilliant Drama of a Cat And a Mad Scientist v
4		22	Amistad Midsummer		A Emotional Character Study of a Dentist And a
5		23	Anaconda Confessions		A Lacklusture Display of a Dentist And a Dentist
6		27	Anonymous Human		A Amazing Reflection of a Database Administra
7		29	Antitrust Tomatoes		A Fateful Yarn of a Womanizer And a Feminist v
8		32	Apocalypse Flamingos		A Astounding Story of a Dog And a Squirrel whc
9		36	Argonauts Town		A Emotional Epistle of a Forensic Psychologist .
10		39	Armageddon Lost		A Fast-Paced Tale of a Boat And a Teacher who
11		42	Artist Coldblooded		A Stunning Reflection of a Robot And a Moose v
12		46	Autumn Crow		A Beautiful Tale of a Dentist And a Mad Cow wh
13		51	Balloon Homeward		A Insightful Panorama of a Forensic Psychologi
14		72	Bill Others		A Stunning Saga of a Mad Scientist And a Forer
15		78	Blackout Private		A Intrepid Yarn of a Pastry Chef And a Mad Scie
16		79	Blade Polish		A Thoughtful Character Study of a Frisbee And i
17		82	Blood Argonauts		A Boring Drama of a Explorer And a Man who m

Film rating is either PG or G

Query Editor	Query History	Data Output	Explain	Messages	Notifications
1	SELECT	film_id	title		description
2	FROM	[PK] integer	character varying (255)		text
3	WHERE				
	rating IN ('PG','G');				
1		1	Academy Dinosaur		A Epic Drama of a Feminist And a Mad Scientis
2		2	Ace Goldfinger		A Astounding Epistle of a Database Administrat
3		4	Affair Prejudice		A Fanciful Documentary of a Frisbee And a Lur
4		5	African Egg		A Fast-Paced Documentary of a Pastry Chef Al
5		6	Agent Truman		A Intrepid Panorama of a Robot And a Boy whc
6		11	Alamo Videotape		A Boring Epistle of a Butler And a Cat who mus
7		12	Alaska Phantom		A Fanciful Saga of a Hunter And a Pastry Chef
8		13	Ali Forever		A Action-Packed Drama of a Dentist And a Cro
9		19	Amadeus Holy		A Emotional Display of a Pioneer And a Techni
10		22	Amistad Midsummer		A Emotional Character Study of a Dentist And i
11		25	Angels Life		A Thoughtful Display of a Woman And a Astron
12		26	Annie Identity		A Amazing Panorama of a Pastry Chef And a E
13		37	Arizona Bang		A Brilliant Panorama of a Mad Scientist And a
14		39	Armageddon Lost		A Fast-Paced Tale of a Boat And a Teacher wh
15		41	Arsenic Independence		A Fanciful Documentary of a Mad Cow And a v
16		265	Dying Maker		A Intrepid Tale of a Boat And a Monkey who m
17		43	Atlantis Cause		A Thrilling Yarn of a Feminist And a Hunter wh

3 and 4 done in one step) To make the output easier for your coworkers to understand, give your aggregate columns the following aliases: “count of movies,” “average movie rental rate,” “maximum rental duration”, and “minimum rental duration”. Run the query and transfer the result into your Excel file on a new sheet as well as the code you used to get there.

Query Editor Query History

```
1  SELECT rating,
2  COUNT (film_id) AS count_of_movies,
3  AVG (rental_rate) AS average_rental_rate,
4  MIN (rental_duration) AS Min_rental_duration,
5  MAX (rental_duration) AS Max_rental_duration
6  FROM film
7  WHERE rating = 'PG' OR rating = 'G'
8  GROUP BY rating;
```

Data Output Explain Messages Notifications

	rating mpaa_rating	count_of_movies bigint	average_rental_rate numeric	min_rental_duration smallint	max_rental_duration smallint
1	G	178	2.888876404494382	3	7
2	PG	194	3.0518556701030928	3	7