

ANSWERS 3.5

1. Write some SQL queries to return a list of films that meet the following conditions. Your results tables should include the columns “film_ID,” “title,” and “description”.
- a) Film title contains the word *Uptown* in any position

Query
Query History
Scratch Pad
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```

1 SELECT film_id,title,description
2 FROM film
3 WHERE title LIKE '%Uptown%'

```

Data Output
Messages
Notifications

	film_id [PK] integer	title character varying (255)	description text
1	132	Chainsaw Uptown	A Beautiful Documentary of a Boy And a Robot who must Discover a Squirrel in Australia
2	207	Dangerous Uptown	A Unbelievable Story of a Mad Scientist And a Woman who must Overcome a Dog in California
3	927	Uprising Uptown	A Fanciful Reflection of a Boy And a Butler who must Pursue a Woman in Berlin
4	928	Uptown Young	A Fateful Documentary of a Dog And a Hunter who must Pursue a Teacher in An Abandoned Amusement P...

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

```

1 SELECT film_id,title,description,
2    length, rental_rate
3 FROM film
4 WHERE rental_rate>2.99 AND LENGTH>120

```

Data Output Messages Notifications					
	film_id [PK] integer	title character varying (255)	description text	length smallint	rental_rate numeric (4,
1	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	150	
2	21	American Circus	A Insightful Drama of a Girl And a Astronaut who must Face a Database Administrator in A Shark Tank	129	
3	265	Dying Maker	A Intrepid Tale of a Boat And a Monkey who must Kill a Cat in California	168	
4	47	Baby Hall	A Boring Character Study of a A Shark And a Girl who must Outrace a Feminist in An Abandoned Mine Shaft	153	
5	126	Casualties Encino	A Insightful Yarn of a A Shark And a Pastry Chef who must Face a Boy in A Monastery	179	
6	61	Beauty Grease	A Fast-Paced Display of a Composer And a Moose who must Sink a Robot in An Abandoned Mine Shaft	175	
7	68	Betrayed Rear	A Emotional Character Study of a Boat And a Pioneer who must Find a Explorer in A Shark Tank	122	
8	70	Bikini Borrowers	A Astounding Drama of a Astronaut And a Cat who must Discover a Woman in The First Manned Space Station	142	
9	74	Birch Antitrust	A Fanciful Panorama of a Husband And a Pioneer who must Outgun a Dog in A Baloon	162	
10	75	Bird Independence	A Thrilling Documentary of a Car And a Student who must Sink a Hunter in The Canadian Rockies	163	

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- c) Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)
– (1000 entries)

```
1 SELECT film_id,title,description,rental_duration
2 FROM film
3 WHERE rental_duration>3 AND rental_duration<7
```

Data Output Messages Notifications				
	film_id [PK] integer	title character varying (255)	description text	rental_dur smallint
1	384	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia	
2	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India	
3	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat	
4	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	
5	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank	
6	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico	
7	7	Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat	
8	10	Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China	
9	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention	
10	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia	
11	213	Date Speed	A Touching Saga of a Composer And a Moose who must Discover a Dentist in A MySQL Convention	

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d) Film replacement cost is less than 14.99 (total 249 entries)

```
1 SELECT film_id,title,description,replacement_cost
2 FROM film
3 WHERE replacement_cost<14.99
```

Data Output Messages Notifications				
	film_id [PK] integer	title character varying (255)	description text	replacement_cost numeric (5,2)
1	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat	12.
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China	12.
3	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention	10.
4	22	Amistad Midsummer	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California	10.
5	23	Anaconda Confessions	A Lacklusture Display of a Dentist And a Dentist who must Fight a Girl in Australia	9.
6	27	Anonymous Human	A Amazing Reflection of a Database Administrator And a Astronaut who must Outrace a Database Administrator in A Shark Tank	12.
7	29	Antitrust Tomatoes	A Fateful Yarn of a Womanizer And a Feminist who must Succumb a Database Administrator in Ancient India	11.
8	32	Apocalypse Flamingos	A Astounding Story of a Dog And a Squirrel who must Defeat a Woman in An Abandoned Amusement Park	11.
9	36	Argonauts Town	A Emotional Epistle of a Forensic Psychologist And a Butler who must Challenge a Waitress in An Abandoned Mine Shaft	12.
10	39	Armageddon Lost	A Fast-Paced Tale of a Boat And a Teacher who must Succumb a Composer in An Abandoned Mine Shaft	10.
11	42	Artist Coldblooded	A Stunning Reflection of a Robot And a Moose who must Challenge a Woman in California	10.

e) Film rating is either PG or G (Total 372 entries)

```
1 SELECT film_id,title,description
2 FROM film
3 WHERE rating='PG' OR rating='G'
```

Data Output Messages Notifications				
	film_id [PK] integer	title character varying (255)	description text	rating mpaa_rating
1	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	PG
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China	G
3	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank	G
4	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico	G
5	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China	PG
6	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention	G
7	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia	PG
8	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	PG
9	19	Amadeus Holy	A Emotional Display of a Pioneer And a Technical Writer who must Battle a Man in A Baloon	PG
10	22	Amistad Midsummer	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California	G
11	25	Anoels Life	A Thoughtful Displav of a Woman And a Astronaut who must Battle a Robot in Berlin	G

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3. The query you wrote in step 1e returned a list of movies that meet certain criteria (film rating is either PG or G). The inventory team has asked for the following information about this list.
 - Count of the movies
 - Average rental rate
 - Maximum rental duration and minimum rental duration
4. 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
Query History
Scratch Pad
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```

1 SELECT
2     count(title) as count_of_movies,
3     avg(rental_rate) as average_rental_rate,
4     max(rental_duration) as maximum_rental_duration,
5     min(rental_duration) as minimum_rental_duration
6 FROM film
7 WHERE rating='PG' OR rating='G'
8

```

Data Output
Messages
Notifications

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	count_of_movies bigint	average_rental_rate numeric	maximum_rental_duration smallint	minimum_rental_duration smallint
1	372	2.9738709677419357	7	3

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5. The customer team would like to see the fields you calculated in step 3 grouped by rating. The totals in your results table should look the same as in step 4, but broken down by the rating column. Copy-paste your query and its output in your answers on a new sheet.

Query
Query History
Scratch Pad
✕

```

1 SELECT rating,
2     count(title) as count_of_movies,
3     avg(rental_rate) as average_rental_rate,
4     max(rental_duration) as maximum_rental_duration,
5     min(rental_duration) as minimum_rental_duration
6 FROM film
7 WHERE rating='PG' OR rating='G'
8 GROUP BY rating

```

Data Output
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Notifications

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