

Assignment 1: DVD Rental Queries

DVD-Rental Assignment 1:

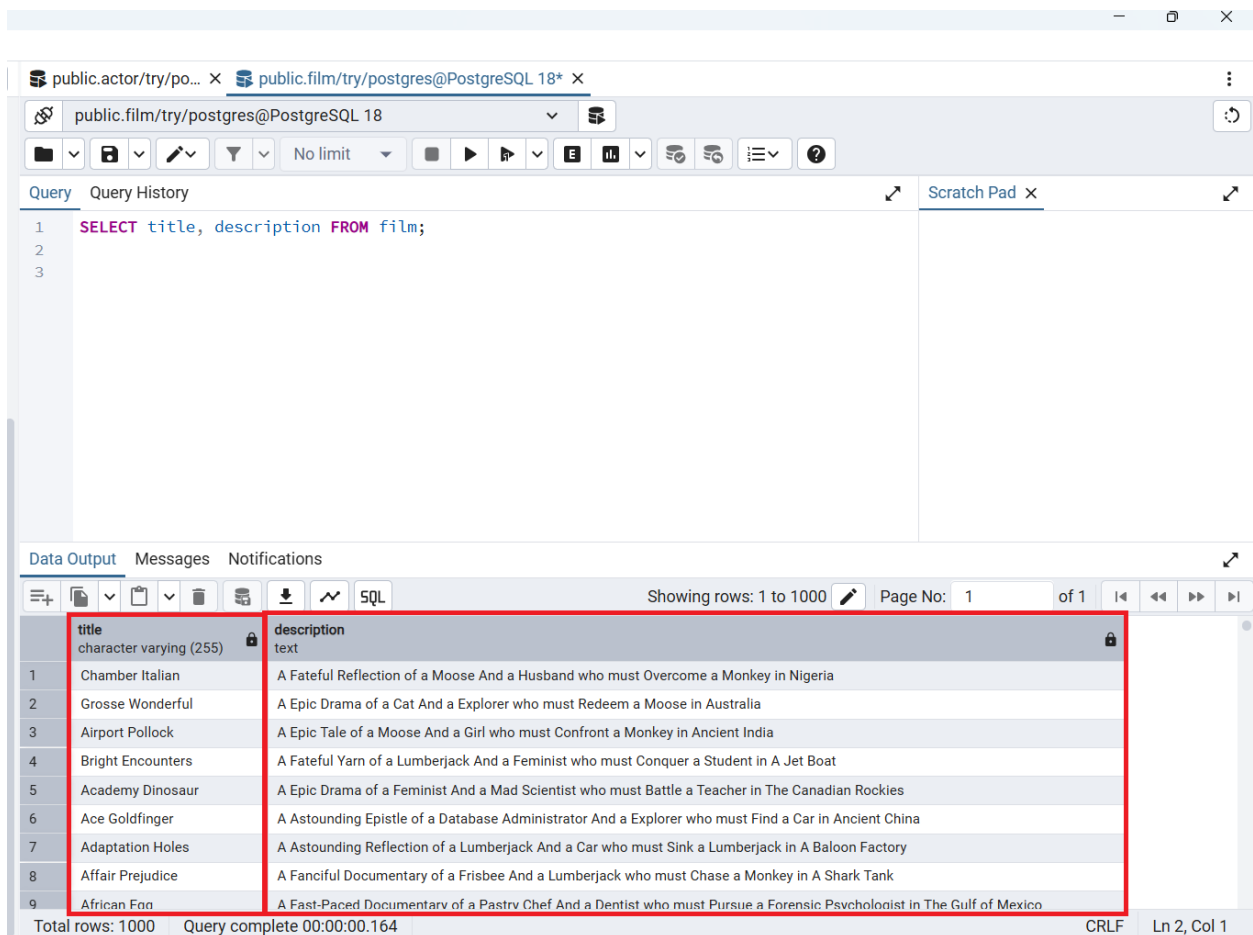
This assignment includes basic PostgreSQL queries on the DVD Rental database.

The queries demonstrate how to retrieve information from the film and customer tables, applying different conditions and filters.

Screenshots of the query results are included below each query.

Query 1:

Description: Retrieve the title and description columns from the film table.



The screenshot shows a PostgreSQL query editor interface. The query editor at the top contains the following SQL query:

```
1 SELECT title, description FROM film;
```

Below the query editor, the 'Data Output' tab is active, displaying the results of the query. The results are shown in a table with two columns: 'title' and 'description'. The table contains 1000 rows, with the first 9 rows visible in the screenshot. The table is highlighted with a red border.

	title	description
	character varying (255)	text
1	Chamber Italian	A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria
2	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia
3	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India
4	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
5	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
6	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
7	Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory
8	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank
9	African Foo	A Fast-Paced Documentarv of a Pastrv Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico

At the bottom of the table, the status bar indicates: 'Total rows: 1000', 'Query complete 00:00:00.164', 'CRLF', and 'Ln 2, Col 1'.

Query 2:

Description: Retrieve all columns from the film table for films with length > 60 and < 75.

The screenshot shows a PostgreSQL query editor interface. The query editor has a tab for 'public.film/try/postgres@PostgreSQL 18'. The query is as follows:

```
1 SELECT * FROM film
2 WHERE length > 60 AND length < 75;
3
4
```

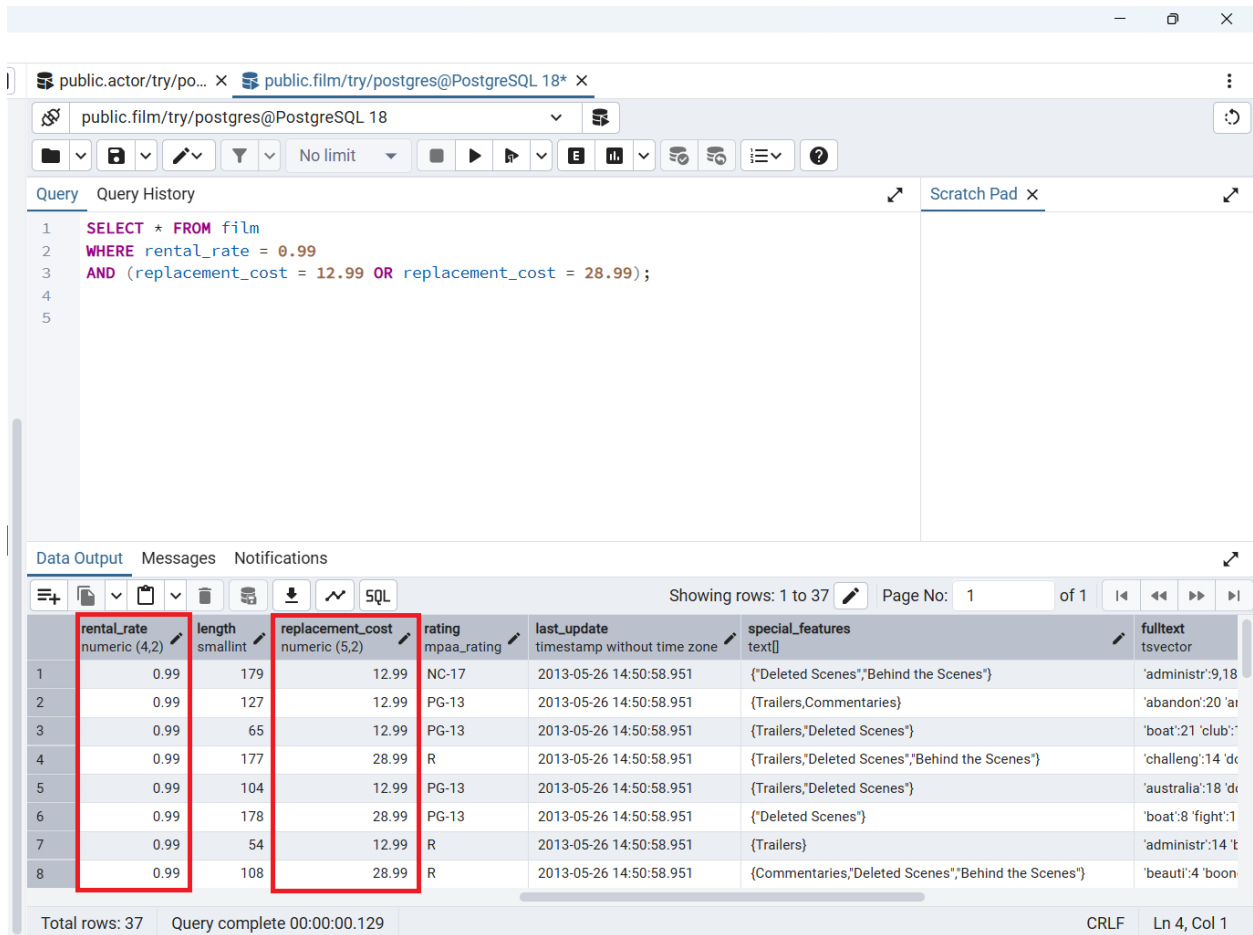
The results are displayed in a table with the following columns: length, replacement_cost, rating, last_update, special_features, and fulltext. The 'length' column is highlighted with a red box. The results show 8 rows of data.

	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating	last_update timestamp without time zone	special_features text[]	fulltext tsvector
1	73	12.99	PG-13	2013-05-26 14:50:58.951	{Trailers}	'boat':20 'bright':1 'conquer':14 'er
2	62	28.99	PG-13	2013-05-26 14:50:58.951	{Trailers,"Deleted Scenes"}	'airplan':1 'boat':20 'butler':11,16 '
3	63	24.99	NC-17	2013-05-26 14:50:58.951	{Trailers,"Deleted Scenes"}	'action':5 'action-pack':4 'aladdin':
4	74	15.99	G	2013-05-26 14:50:58.951	{Trailers}	'angel':1 'astronaut':11 'battl':14 't
5	62	29.99	NC-17	2013-05-26 14:50:58.951	{Commentaries,"Deleted Scenes"}	'arabia':1 'cow':12 'defeat':15 'dog
6	68	25.99	NC-17	2013-05-26 14:50:58.951	{Trailers,Commentaries,"Deleted Scenes","Behind the Scen...	'ark':1 'beauti':4 'desert':20 'explor
7	65	27.99	G	2013-05-26 14:50:58.951	{ "Behind the Scenes" }	'awe':5 'awe-inspir':4 'barbarella':1
8	73	21.99	PG	2013-05-26 14:50:58.951	{Trailers,"Deleted Scenes","Behind the Scenes"}	'abandon':21 'astound':4 'bedazzl'

Total rows: 104 Query complete 00:00:00.236 CRLF Ln 2, Col 35

Query 3:

Description: Retrieve all columns from the film table where rental_rate = 0.99 and replacement_cost = 12.99 or 28.99.



The screenshot shows a PostgreSQL query editor interface. The query is as follows:

```
1 SELECT * FROM film
2 WHERE rental_rate = 0.99
3 AND (replacement_cost = 12.99 OR replacement_cost = 28.99);
4
5
```

The results are displayed in a table with 8 rows. The columns are: rental_rate, length, replacement_cost, rating, last_update, special_features, and fulltext. The first two columns, rental_rate and replacement_cost, are highlighted with red boxes in the original image.

	rental_rate numeric (4,2)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating	last_update timestamp without time zone	special_features text[]	fulltext tsvector
1	0.99	179	12.99	NC-17	2013-05-26 14:50:58.951	{ "Deleted Scenes", "Behind the Scenes" }	'administr':9,18
2	0.99	127	12.99	PG-13	2013-05-26 14:50:58.951	{ Trailers, Commentaries }	'abandon':20 'ar
3	0.99	65	12.99	PG-13	2013-05-26 14:50:58.951	{ Trailers, Deleted Scenes }	'boat':21 'club':
4	0.99	177	28.99	R	2013-05-26 14:50:58.951	{ Trailers, Deleted Scenes, Behind the Scenes }	'challeng':14 'dc
5	0.99	104	12.99	PG-13	2013-05-26 14:50:58.951	{ Trailers, Deleted Scenes }	'australia':18 'dc
6	0.99	178	28.99	PG-13	2013-05-26 14:50:58.951	{ "Deleted Scenes" }	'boat':8 'fight':1
7	0.99	54	12.99	R	2013-05-26 14:50:58.951	{ Trailers }	'administr':14 't
8	0.99	108	28.99	R	2013-05-26 14:50:58.951	{ Commentaries, Deleted Scenes, Behind the Scenes }	'beauti':4 'boon

Total rows: 37 Query complete 00:00:00.129 CRLF Ln 4, Col 1

Query 4:

Description: Retrieve the last_name of the customer whose first_name = 'Mary'.

Answer: Smith

The screenshot shows a web-based PostgreSQL query editor interface. The browser tabs include 'public.actor/try/po...' and 'public.film/try/postgres@PostgreSQL 18*'. The address bar shows 'public.film/try/postgres@PostgreSQL 18'. The interface has a top toolbar with various icons for file operations, query execution, and settings. Below the toolbar, there are tabs for 'Query', 'Query History', and 'Scratch Pad'. The 'Query' tab is active, displaying the following SQL query:

```
1 SELECT last_name FROM customer
2 WHERE first_name = 'Mary';
```

Below the query editor, there are tabs for 'Data Output', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing a table with one row. The table has a column named 'last_name' with a data type of 'character varying (45)'. The row contains the value 'Smith'.

	last_name character varying (45)
1	Smith

At the bottom of the interface, there is a status bar showing 'Total rows: 1', 'Query complete 00:00:00.126', 'CRLF', and 'Ln 2, Col 27'.

Query 5:

Description: Retrieve all columns from the film table where length ≤ 50 and rental_rate is not 2.99 or 4.99.

The screenshot shows a PostgreSQL query editor interface. The query is as follows:

```
1 SELECT * FROM film
2 WHERE length <= 50 AND (NOT rental_rate = 2.99 AND NOT rental_rate = 4.99);
```

The results are displayed in a table with the following columns: rental_rate, length, replacement_cost, rating, last_update, special_features, and fulltext. The first 8 rows are shown, with the first two columns highlighted by a red box.

	rental_rate numeric (4,2)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating	last_update timestamp without time zone	special_features text[]	fulltext tsvector
1	0.99	47	19.99	G	2013-05-26 14:50:58.951	{Trailers,Commentaries,'Deleted Scenes'}	'chef':9 'desert':22 'dow
2	0.99	47	12.99	PG-13	2013-05-26 14:50:58.951	{'Behind the Scenes'}	'action':5 'action-pack':
3	0.99	49	23.99	G	2013-05-26 14:50:58.951	{Trailers,Commentaries,'Behind the Scenes'}	'australia':18 'boy':8,16
4	0.99	46	25.99	PG-13	2013-05-26 14:50:58.951	{Trailers,Commentaries}	'amaz':4 'car':8,16 'drar
5	0.99	48	20.99	PG	2013-05-26 14:50:58.951	{'Deleted Scenes'}	'australia':18 'challeng'
6	0.99	50	13.99	PG	2013-05-26 14:50:58.951	{Trailers,'Deleted Scenes'}	'ancient':20 'cat':12 'ch
7	0.99	50	24.99	PG-13	2013-05-26 14:50:58.951	{Commentaries,'Deleted Scenes'}	'balloon':22 'car':19 'def
8	0.99	48	19.99	PG-13	2013-05-26 14:50:58.951	{Trailers,Commentaries}	'butler':8 'canadian':19

Total rows: 13 Query complete 00:00:00.268 CRLF Ln 2, Col 76