

Assignment 2: DVDRental Queries

DVD-Rental Assignment 2:

This assignment includes basic PostgreSQL queries on the DVDRental database.

The queries demonstrate how to retrieve information from the film and actor tables, applying different conditions and filters such as BETWEEN ... AND and IN.

Screenshots of the query results are included below each query.

Query 1:

Description: Retrieve all columns from the film table where replacement_cost is greater than or equal to 12.99 and less than 16.99 using BETWEEN ... AND.

The screenshot shows the pgAdmin III interface with two tabs open: 'public.actor/try/po...' and 'public.film/try/postgres@PostgreSQL 18*'. The 'Query' tab contains the following SQL code:

```
1 SELECT * FROM film
2 WHERE replacement_cost BETWEEN 12.99 AND 16.99;
```

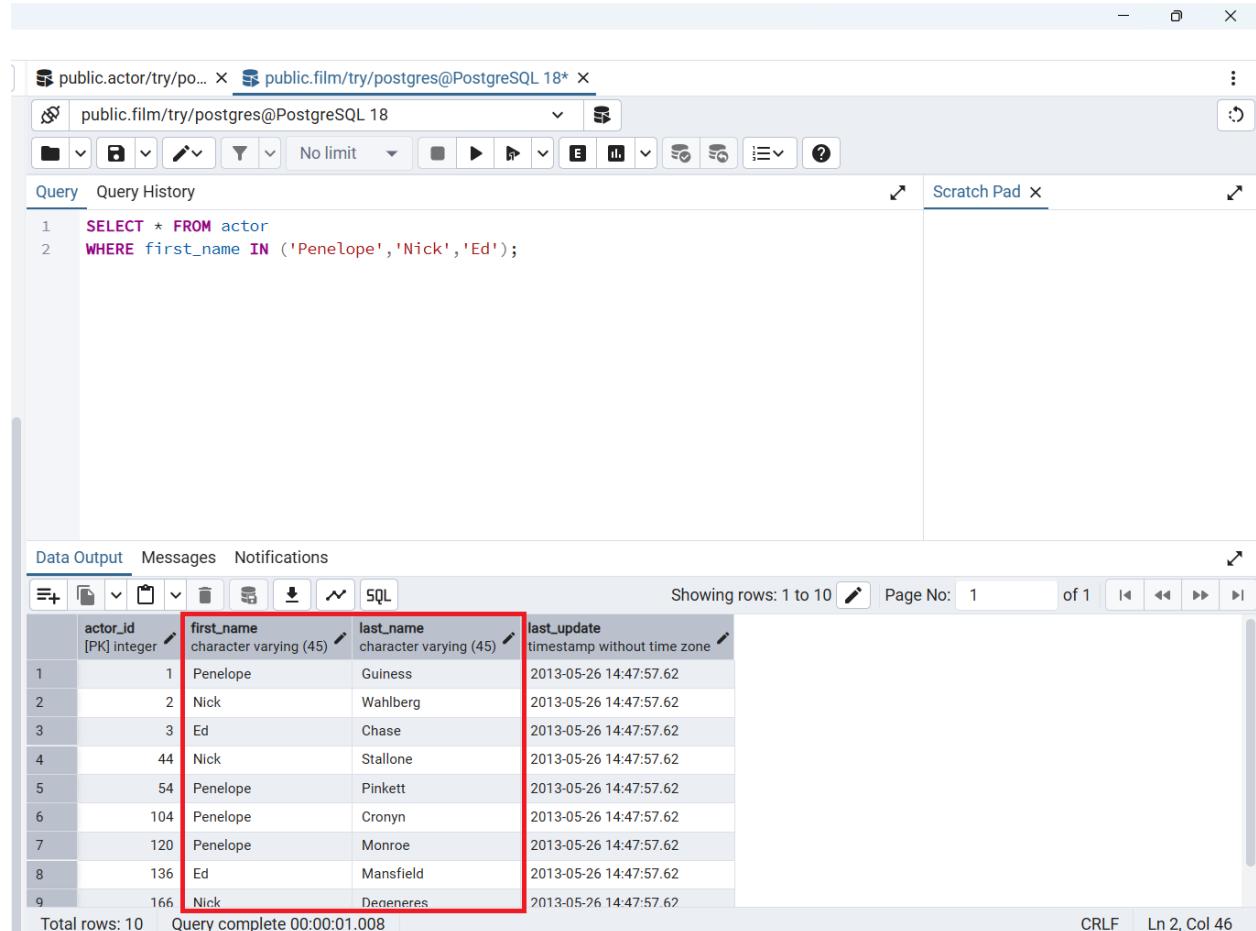
The 'Data Output' tab displays the results of the query:

	replacement_cost	rating	last_update	special_features	fulltext
1	14.99	NC-17	2013-05-26 14:50:58.951	{Trailers}	'chamber':1 'fate':4 'husband':11 'italian':2 'mon'
2	15.99	R	2013-05-26 14:50:58.951	{Trailers}	'airport':1 'ancient':18 'confront':14 'epic':4 'girl':
3	12.99	PG-13	2013-05-26 14:50:58.951	{Trailers}	'boat':20 'bright':1 'conquer':14 'encount':2 'fate':
4	12.99	G	2013-05-26 14:50:58.951	{Trailers,"Deleted Scenes"}	'ace':1 'administr':9 'ancient':19 'astound':4 'car':
5	16.99	G	2013-05-26 14:50:58.951	{Commentaries,"Behind the Scenes"}	'alamo':1 'bore':4 'butler':8 'cat':11 'chef':17 'con':
6	14.99	R	2013-05-26 14:50:58.951	{Trailers,"Behind the Scenes"}	'abandon':22 'alon':1 'boat':19 'charact':7 'compi':
7	15.99	G	2013-05-26 14:50:58.951	{Trailers}	'angel':1 'astronaut':11 'battl':14 'berlin':18 'displ':
8	15.99	G	2013-05-26 14:50:58.951	{Commentaries,"Deleted Scenes"}	'abandon':20 'amaz':4 'amus':21 'anni':1 'boat':1

Total rows: 236 Query complete 00:00:01.106 CRLF Ln 2, Col 41

Query 2:

Description: Retrieve first_name and last_name from the actor table where first_name is 'Penelope', 'Nick', or 'Ed' using the IN operator.



The screenshot shows the pgAdmin 4 interface with two tabs open: 'public.actor/try/po...' and 'public.film/try/postgres@PostgreSQL 18*'. The bottom tab is active and displays a SQL query and its results.

```
1 SELECT * FROM actor
2 WHERE first_name IN ('Penelope','Nick','Ed');
```

The results table shows the following data:

	actor_id	first_name	last_name	last_update
1	1	Penelope	Guinness	2013-05-26 14:47:57.62
2	2	Nick	Wahlberg	2013-05-26 14:47:57.62
3	3	Ed	Chase	2013-05-26 14:47:57.62
4	44	Nick	Stallone	2013-05-26 14:47:57.62
5	54	Penelope	Pinkett	2013-05-26 14:47:57.62
6	104	Penelope	Cronyn	2013-05-26 14:47:57.62
7	120	Penelope	Monroe	2013-05-26 14:47:57.62
8	136	Ed	Mansfield	2013-05-26 14:47:57.62
9	166	Nick	Degeneres	2013-05-26 14:47:57.62

Total rows: 10 Query complete 00:00:01.008

Query 3:

Description: Retrieve all columns from film table where rental_rate is 0.99, 2.99, or 4.99 **and** replacement_cost is 12.99, 15.99, or 28.99 using the IN operator.

The screenshot shows the pgAdmin 4 interface with two tabs open: 'public.actor/try/po...' and 'public.film/try/postgres@PostgreSQL 18*'. The 'public.film' tab is active, showing a query editor with the following SQL code:

```
1 SELECT * FROM film
2 WHERE rental_rate IN (0.99,2.99,4.99) AND replacement_cost IN (12.99,15.99,28.99);
```

Below the query editor is a data grid displaying the results of the query. The results show 133 rows of film data. The columns and their values are as follows:

	rental_rate	length	replacement_cost	rating	last_update	special_features	fulltext
	numeric (4,2)	smallint	numeric (5,2)	mpaa_rating	timestamp without time zone	text[]	tsvector
1	4.99	54	15.99	R	2013-05-26 14:50:58.951	{Trailers}	'airport':1 'anci
2	4.99	73	12.99	PG-13	2013-05-26 14:50:58.951	{Trailers}	'boat':20 'brigh
3	4.99	48	12.99	G	2013-05-26 14:50:58.951	{Trailers,'Deleted Scenes'}	'ace':1 'adminis
4	4.99	62	28.99	PG-13	2013-05-26 14:50:58.951	{Trailers,'Deleted Scenes'}	'airplan':1 'boat
5	2.99	74	15.99	G	2013-05-26 14:50:58.951	{Trailers}	'angel':1 'astroi
6	0.99	86	15.99	G	2013-05-26 14:50:58.951	{Commentaries,'Deleted Scenes'}	'abandon':20 'a
7	0.99	179	12.99	NC-17	2013-05-26 14:50:58.951	{"Deleted Scenes","Behind the Scenes"}	'administr':9,1{
8	2.99	153	15.99	PG-13	2013-05-26 14:50:58.951	{Trailers,Commentaries,'Deleted Scenes','Behind the Scen...}	'abandon':22 'a

At the bottom of the interface, it shows 'Total rows: 133' and 'Query complete 00:00:00.342'.