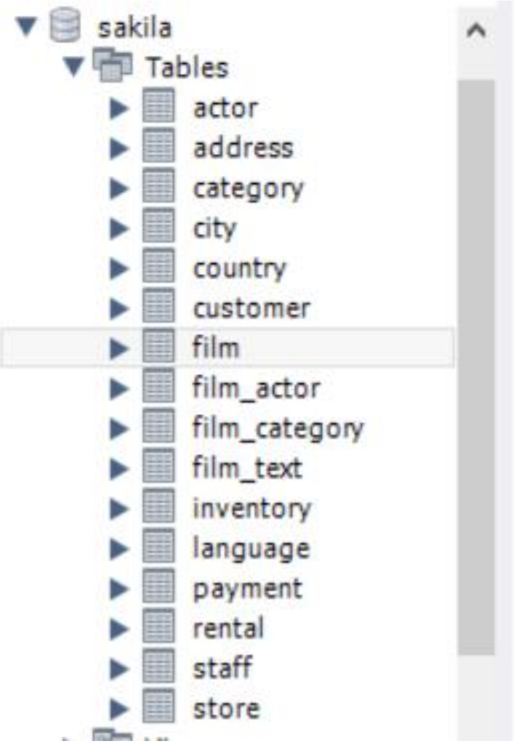
Database Text Functions Demo

David Asare

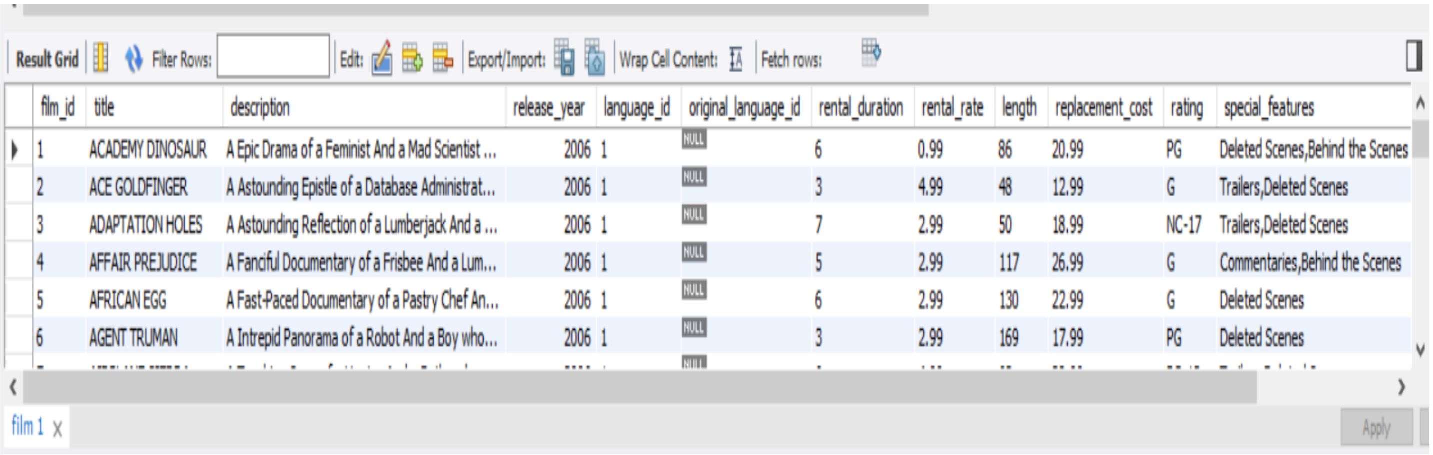
This demo will be displaying Database Text function examples using the sakila schema.



- sakila
  - Tables
    - actor
    - address
    - category
    - city
    - country
    - customer
    - film
    - film_actor
    - film_category
    - film_text
    - inventory
    - language
    - payment
    - rental
    - staff
    - store

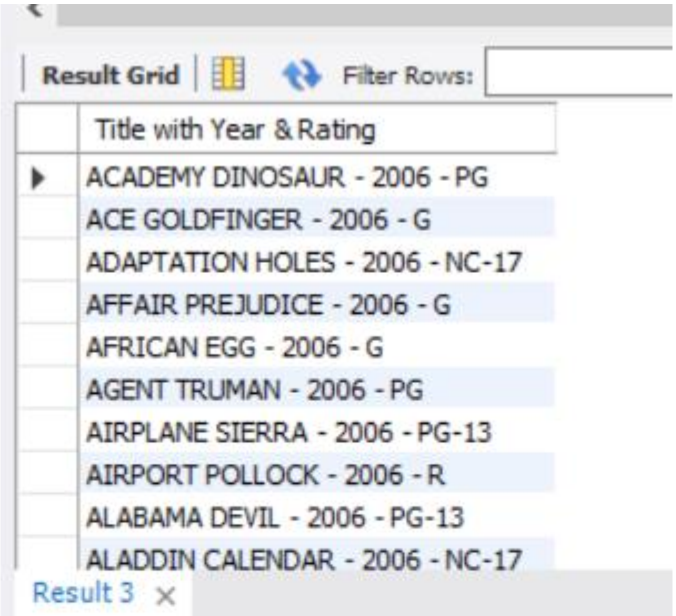
Original table from film.

SELECT * FROM sakila.film;



film_id	title	description	release_year	language_id	original_language_id	rental_duration	rental_rate	length	replacement_cost	rating	special_features
1	ACADEMY DINOSAUR	A Epic Drama of a Feminist And a Mad Scientist ...	2006	1	NULL	6	0.99	86	20.99	PG	Deleted Scenes,Behind the Scenes
2	ACE GOLDFINGER	A Astounding Epistle of a Database Administrat...	2006	1	NULL	3	4.99	48	12.99	G	Trailers,Deleted Scenes
3	ADAPTATION HOLES	A Astounding Reflection of a Lumberjack And a ...	2006	1	NULL	7	2.99	50	18.99	NC-17	Trailers,Deleted Scenes
4	AFFAIR PREJUDICE	A Fanciful Documentary of a Frisbee And a Lum...	2006	1	NULL	5	2.99	117	26.99	G	Commentaries,Behind the Scenes
5	AFRICAN EGG	A Fast-Paced Documentary of a Pastry Chef An...	2006	1	NULL	6	2.99	130	22.99	G	Deleted Scenes
6	AGENT TRUMAN	A Intrepid Panorama of a Robot And a Boy who...	2006	1	NULL	3	2.99	169	17.99	PG	Deleted Scenes

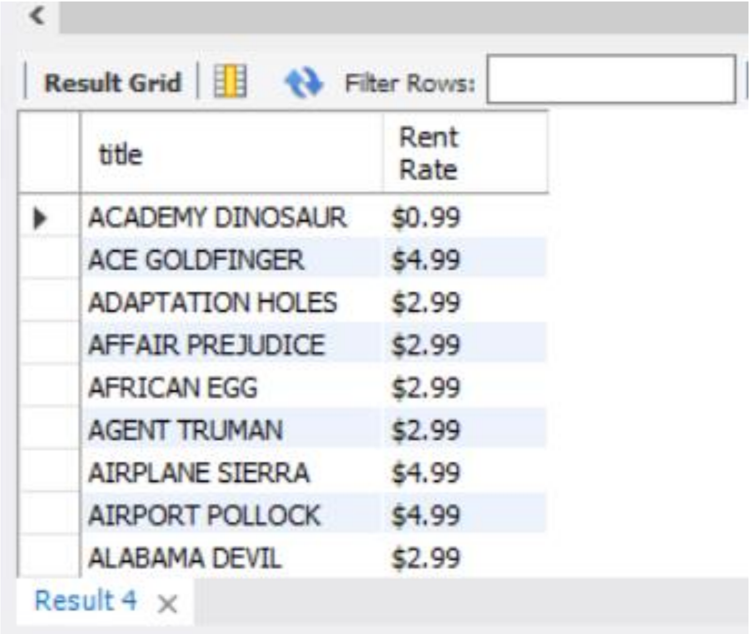
```
-- Database Text function examples using sakila schema

-- Combine columns and literal strings
select concat(title, " - " , release_year, " - ", rating) as "Title with Year & Rating"
from sakila.film;
```



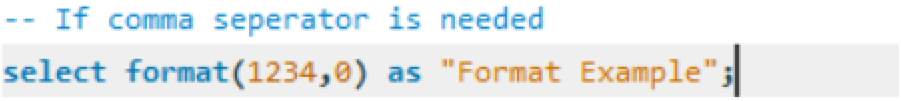
Title with Year & Rating
ACADEMY DINOSAUR - 2006 - PG
ACE GOLDFINGER - 2006 - G
ADAPTATION HOLES - 2006 - NC-17
AFFAIR PREJUDICE - 2006 - G
AFRICAN EGG - 2006 - G
AGENT TRUMAN - 2006 - PG
AIRPLANE SIERRA - 2006 - PG-13
AIRPORT POLLOCK - 2006 - R
ALABAMA DEVIL - 2006 - PG-13
ALADDIN CALENDAR - 2006 - NC-17

```
-- Format as currency with alias
```

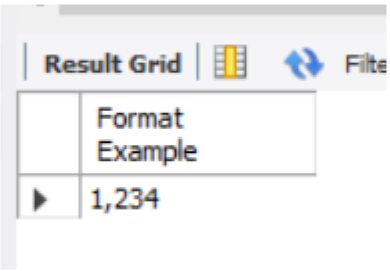
- `select title, concat("$", rental_rate) as "Rent Rate" from sakila.film;`



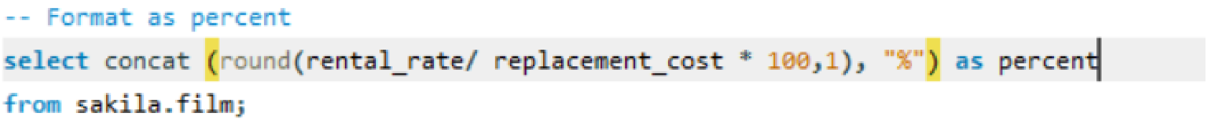
title	Rent Rate
ACADEMY DINOSAUR	$0.99
ACE GOLDFINGER	$4.99
ADAPTATION HOLES	$2.99
AFFAIR PREJUDICE	$2.99
AFRICAN EGG	$2.99
AGENT TRUMAN	$2.99
AIRPLANE SIERRA	$4.99
AIRPORT POLLOCK	$4.99
ALABAMA DEVIL	$2.99



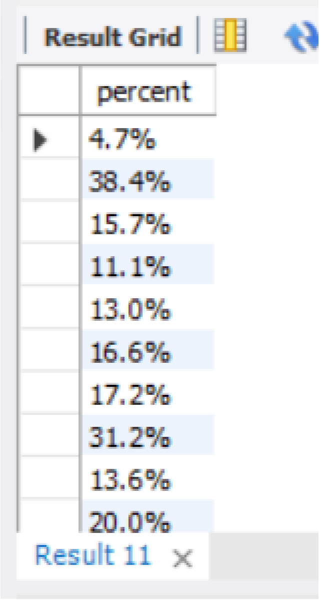
```
-- If comma seperator is needed
select format(1234,0) as "Format Example";
```



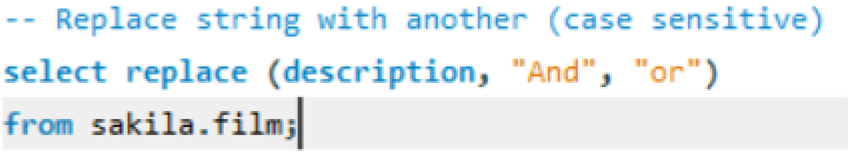
```
Format
Example
1,234
```



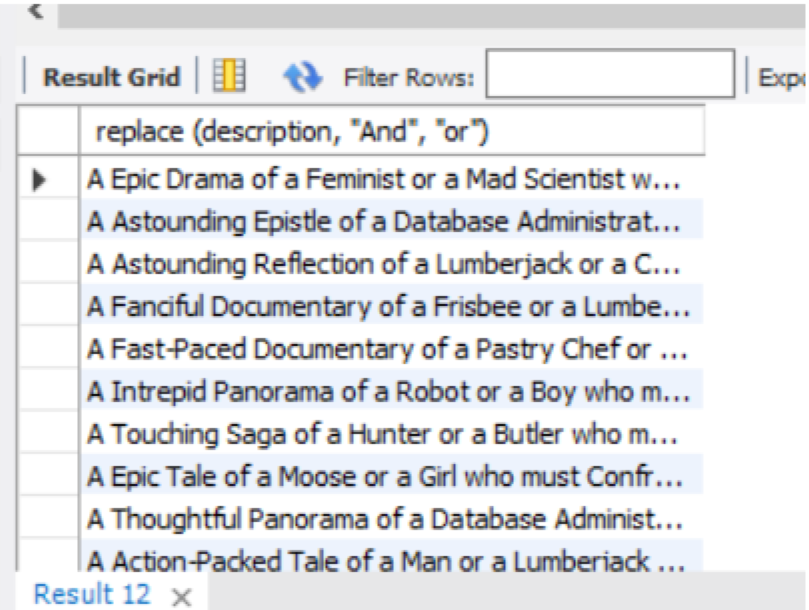
```
-- Format as percent
select concat (round(rental_rate/ replacement_cost * 100,1), "%") as percent
from sakila.film;
```



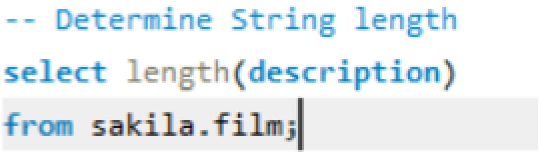
```
percent
4.7%
38.4%
15.7%
11.1%
13.0%
16.6%
17.2%
31.2%
13.6%
20.0%
```



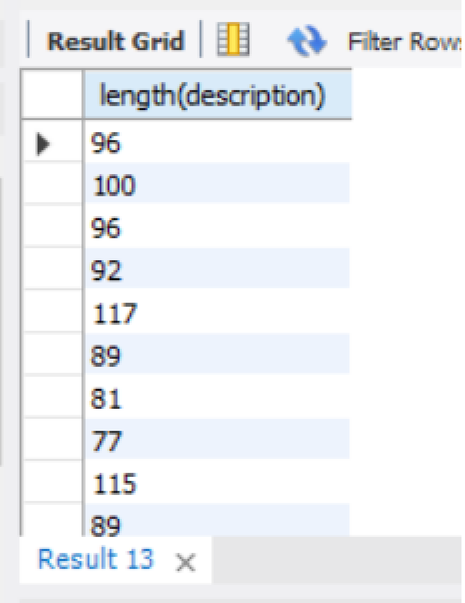
```
-- Replace string with another (case sensitive)
select replace (description, "And", "or")
from sakila.film;
```



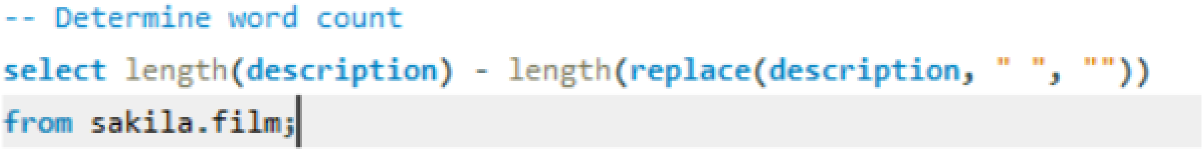
replace (description, "And", "or")
A Epic Drama of a Feminist or a Mad Scientist w...
A Astounding Epistle of a Database Administrat...
A Astounding Reflection of a Lumberjack or a C...
A Fanciful Documentary of a Frisbee or a Lumbe...
A Fast-Paced Documentary of a Pastry Chef or ...
A Intrepid Panorama of a Robot or a Boy who m...
A Touching Saga of a Hunter or a Butler who m...
A Epic Tale of a Moose or a Girl who must Confr...
A Thoughtful Panorama of a Database Administ...
A Action-Packed Tale of a Man or a Lumberjack ...



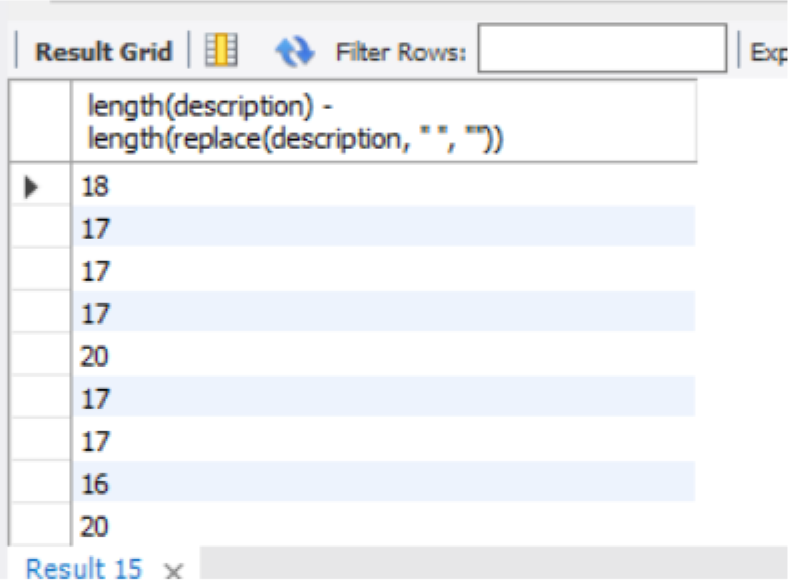
```
-- Determine String length
select length(description)
from sakila.film;
```



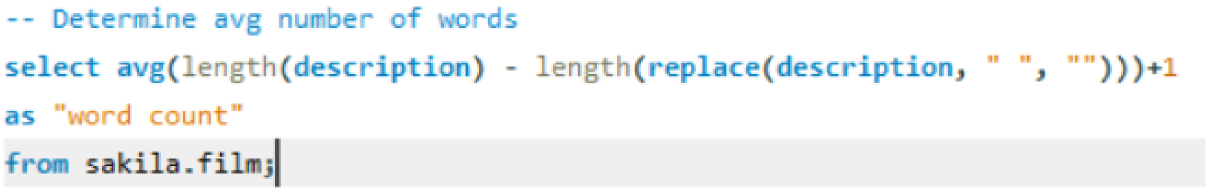
length(description)
96
100
96
92
117
89
81
77
115
89



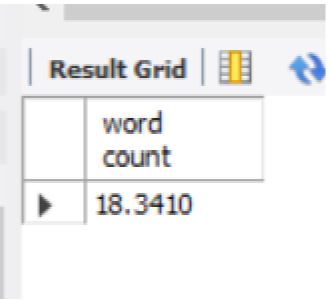
```
-- Determine word count
select length(description) - length(replace(description, " ", ""))
from sakila.film;
```



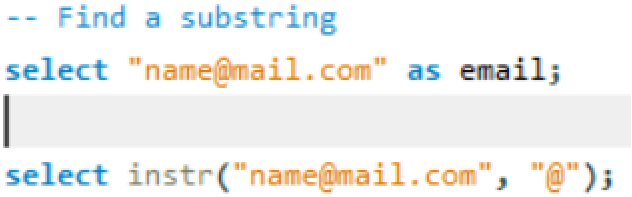
length(description) - length(replace(description, " ", ""))
18
17
17
17
20
17
17
16
20



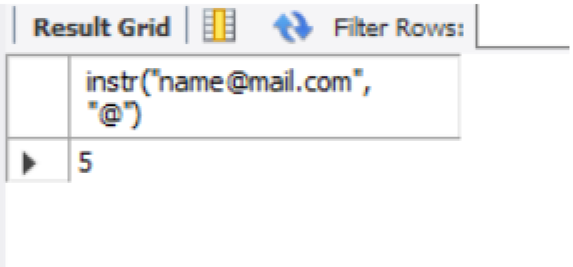
```
-- Determine avg number of words
select avg(length(description) - length(replace(description, " ", "")))+1
as "word count"
from sakila.film;
```



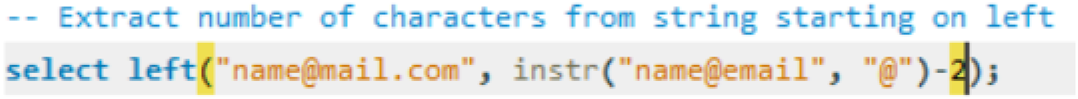
word count
18.3410



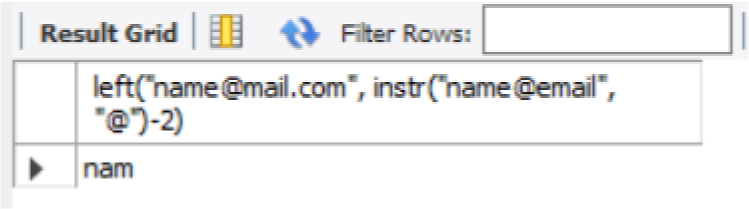
```
-- Find a substring
select "name@mail.com" as email;

select instr("name@mail.com", "@");
```



instr("name@mail.com", "@")
5



```
-- Extract number of characters from string starting on left
select left("name@mail.com", instr("name@email", "@")-2);
```



left("name@mail.com", instr("name@email", "@")-2)
nam

References

https://www.youtube.com/watch?v=GUrNk9kYf4k