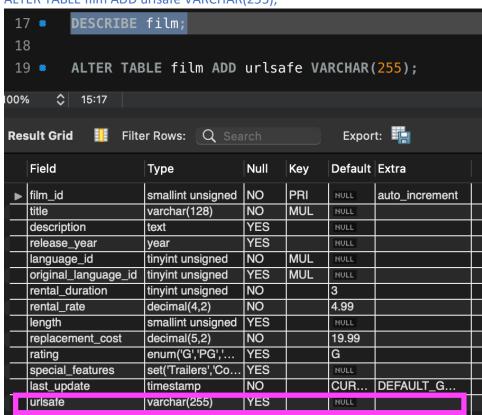
Lab 9- Stored Programs: User Defined Functions

Task 2

Create a function to clean up and make the film descriptions URL safe. For example, URLs cannot contain spaces and certain special characters.

1. Alter the table film by adding the following column and write the query to do so as your answer: urlsafe VARCHAR(255) (1 mark)

ALTER TABLE film ADD urlsafe VARCHAR(255);



2. Create a user defined function, named clean_string, to strip out spaces. The user defined function will accept a string(varchar) as an argument. (4 marks)

```
DELIMITER:

CREATE FUNCTION clean_string (oldString varchar(255))

RETURNS varchar(255)

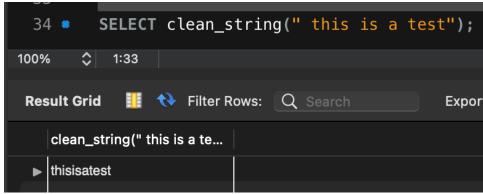
DETERMINISTIC

BEGIN

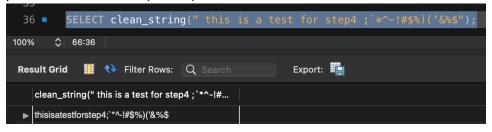
RETURN REPLACE(oldString, ' ', '');

END:
```

3. Test your function by running and copy the result of running this as your answer: select clean_string(" this is a test"); (1 mark)



4. Test your function by running a string through that has other characters present such as a period or a semi colon. (1 mark)



5. Alter your function to strip out the following characters in addition to spaces: .;!@#\$%* (2 marks)

```
DROP FUNCTION IF EXISTS clean_string;

DELIMITER:

CREATE FUNCTION clean_string (oldString varchar(255))

RETURNS varchar(255)

DETERMINISTIC

BEGIN

declare newString01 varchar(255);

set newString01 = REGEXP_REPLACE(oldString,'[: .;!@#$%*]', '');

RETURN REPLACE(newString01, ' ', '');

END:

DELIMITER;

DELIMITER;
```

6. Now run your function against the description field of the film table for the first 5 rows and copy the result as your answer. (1 mark)

the result (below)

'AEpicDramaofaFeministAndaMadScientistwhomustBattleaTeacherinTheCanadianRockies'

'A Astounding Epistle of a Database Administrator Anda Explorer who must Finda Carin Ancient China'

'A A stounding Reflection of a Lumber jack Anda Carwhomust Sinka Lumber jack in ABaloon Factory'

'AFancifulDocumentaryofaFrisbeeAndaLumberjackwhomustChasea\n\nMonkeyinASharkTank'
'AFast-

Paced Documentary of a Pastry Chef Anda Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico'



Last Name, first name – Lab 9.sql

Include delimiter statements when submitting the lab.