**Question 1**

Please write a query to remove “hotmail” in a column.

Reference the code and data in table 70 and the expected output in table 71.

**drop table if exists tt7;**

**create table tt7 (c1 varchar(30));**

**insert into tt7 values ('hotmail, xyz, 897'),**

**('cvb, hotmail, kjh'),**

**('567, ppq, mmn, hotmail'),**

**('hotmail');**

**select \* from tt7;**

|  |
| --- |
| **Table 70: 4 records** |
| **c1** |
| hotmail, xyz, 897 |
| cvb, hotmail, kjh |
| 567, ppq, mmn, hotmail |
| hotmail |

|  |  |
| --- | --- |
| **Table 70: 4 records** | |
| **before** | **after** |
| hotmail, xyz, 897 | xyz, 897 |
| cvb, hotmail, kjh | cvb, kjh |
| 567, ppq, mmn, hotmail | 567, ppq, mmn |
| hotmail |  |

**SELECT tt7.c1 as before, regexp\_replace(c1,**

**'hotmail|hotmail,|, hotmail','','g') as after from tt7;**

**Question 2**

Write a query to remove special (non-alphanumerical) characters from a column using regexp\_replace. see data in table 72 and the expected output in table 73.

**drop table if exists tt7;**

**create table tt7 (c1 varchar(20));**

**insert into tt7 values ('123-xyz .w@w');**

**insert into tt7 values ('St. Louis ^#!^&');**

**select \* from tt7;**

|  |
| --- |
| **Table 72: 2 records** |
| **c1** |
| 123-xyz-w@w |
| St. Louis#!& |

|  |  |
| --- | --- |
| **Table 72: 2 records** | |
| **c1** | **regexp\_replace** |
| 123-xyz-w@w | 123 xyz w w |
| St. Louis#!& | St. Louis |

**SELECT c1, regexp\_replace( c1, '[^\w]+',' ','g') from tt7;**

**Question 3**

Please write a query to remove carriage returns and non-printable characters from a column. see data in table 74 and the expected output in table 75.

**drop table tt7;**

**create table tt7 (c1 varchar(20));**

**insert into tt7 values ('St. Louis' || chr(9) || 'MO' ||chr(9));**

**insert into tt7 values( 'A' || chr(10) || 'B');**

**select \* from tt7;**

|  |
| --- |
| **Table 74: 2 records** |
| **c1** |
| St. Louis MO |
| A |
| B |

|  |  |
| --- | --- |
| **Table 74: 2 records** | |
| **c1** | **cc** |
| St. Louis MO | St Louis MO |
| A |  |
| B | B |

**select c1, regexp\_replace( c1, E'[\\t\\n\\r]+', ' ', 'g' ) as cc from tt7;**

**Question 4**

Please write a query to count the presence of each character in the column “title” of table “film\_cat\_rate”. see data in table 76 and the expected output in table 77.

|  |
| --- |
| **Table 76: Displaying records 1-10** |
| **title** |
| Amistad Midsummer |
| Apollo Teen |
| Bedazzled Married |
| Blood Argonauts |
| California Birds |
| Camelot Vacation |
| Caribbean Liberty |
| Champion Flatliners |
| Conquerer Nuts |
| Dozen Lion |

|  |  |
| --- | --- |
| **Table 77: Displaying records 1-10** | |
| **substr** | **count** |
|  | 1000 |
| A | 108 |
| B | 123 |
| C | 177 |
| D | 139 |
| E | 58 |
| F | 88 |
| G | 97 |
| H | 117 |
| I | 52 |

**SELECT ' ' as substr, count(length(regexp\_replace(title, '[^X|^x]', '', 'g'))) as count from film**

**UNION ALL**

**SELECT l.substr, COALESCE(y.count, 0) AS count**

**FROM**

**(SELECT chr(generate\_series(65, 90)) AS substr) l**

**LEFT JOIN (SELECT substr, count(film\_id) AS count**

**FROM (SELECT film\_id, regexp\_split\_to\_table(title, '') AS substr**

**FROM film) x**

**GROUP BY 1**

**) y USING (substr)**

**ORDER BY 1 limit 10;**