

String Operations

1.Format the names of members

Query: select surname || ', ' || firstname as name from cd.members

SQLOUTPUT:

```
exercises=# select surname || ', ' || firstname as name from cd.members;
          name
-----
GUEST, GUEST
Smith, Darren
Smith, Tracy
Rownam, Tim
Joplette, Janice
Butters, Gerald
Tracy, Burton
Dare, Nancy
Boothe, Tim
Stibbons, Ponder
Owen, Charles
Jones, David
Baker, Anne
Farrell, Jemima
Smith, Jack
Bader, Florence
Baker, Timothy
Pinker, David
Genting, Matthew
Mackenzie, Anna
Coplin, Joan
Sarwin, Ramnaresh
Jones, Douglas
Rumney, Henrietta
Farrell, David
Worthington-Smyth, Henry
Purview, Millicent
Tupperware, Hyacinth
Hunt, John
Crumpet, Erica
Smith, Darren
(31 rows)
```

2.Find facilities by a name prefix

Query: select * from cd.facilities where name like 'Tennis%';

SQLOUTPUT:

```
exercises=# select * from cd.facilities where name like 'Tennis%';
 facid |      name      | membercost | guestcost | initialoutlay | monthlymaintenance
-----+-----+-----+-----+-----+-----
      0 | Tennis Court 1 |          5 |         25 |         10000 |             200
      1 | Tennis Court 2 |          5 |         25 |          8000 |             200
(2 rows)
```

3.Perform a case-insensitive search

Query: select * from cd.facilities where upper(name) like 'TENNIS%';

SQLOUTPUT:

```
exercises=# select * from facilities where upper(name) like 'TENNIS%';
 facid |      name      | membercost | guestcost | initialoutlay | monthlymaintenance
-----+-----+-----+-----+-----+-----
      0 | Tennis Court 1 |          6 |         30 |         10000 |             200
      1 | Tennis Court 2 |         6.6 |        33.0 |         10000 |             200
(2 rows)
```

4.Find telephone numbers with parentheses

Query: select memid, telephone from cd.members where telephone similar to '%[()]%';

SQLOUTPUT:

```
exercises=# select memid, telephone from members where telephone similar to '%[()]%';
 memid | telephone
-----+-----
(0 rows)
```

5.Pad zip codes with leading zeroes

Query: select lpad(cast(zipcode as char(5)),5,'0') zip from cd.members order by zip

SQLOUTPUT:

```
exercises=# select lpad(cast(zipcode as char(5)),5,'0') zip from cd.members order by zip
exercises=# ;
  zip
-----
00000
00234
00234
04321
04321
10383
11986
23423
28563
33862
34232
43532
43533
45678
52365
54333
56754
57392
58393
64577
65332
65464
66796
68666
69302
75655
78533
80743
84923
87630
97676
(31 rows)
```

6.Count the number of members whose surname starts with each letter of the alphabet

Query: select substr (mems.surname,1,1) as letter, count(*) as count from cd.members mems group by letter order by letter

SQLOUTPUT:

```
exercises=# select substr (mems.surname,1,1) as letter, count(*) as count
exercises=#       from cd.members mems
exercises=#       group by letter
exercises=#       order by letter
exercises=# ;
```

letter	count
B	5
C	2
D	1
F	2
G	2
H	1
J	3
M	1
O	1
P	2
R	2
S	6
T	2
W	1

(14 rows)

7.Clean up telephone numbers

Query: select memid, regexp_replace(telephone, '[^0-9]', '', 'g') as telephone
from cd.members
order by memid;

SQLOUTPUT:

```
exercises=# select memid, regexp_replace(telephone, '[^0-9]', '', 'g') as telephone
exercises=#       from cd.members
exercises=#       order by memid;
```

memid	telephone
0	0000000000
1	5555555555
2	5555555555
3	8446930723
4	8339424710
5	8446978430
6	8223549973
7	8337764801
8	8114332547
9	8331603900
10	8555425251
11	8445368030
12	9449765141
13	8550160163
14	8221632294
15	8334993527
16	8339410824
17	8114006734
20	8119721377
21	8228612898
22	8224992232
24	8224131470
25	8445368030
27	8229898870
28	9557559976
29	8558943758
30	8559419780
33	8226655327
35	8997206078
36	8117324816
37	8225773541

(31 rows)