

Advanced Queries

1. List the name of the users whose BlockNum>5

```
SELECT u.name as Hostile_User
FROM   Users u,Monitors
WHERE  u.userid = monitors.userid
AND EXISTS
(SELECT m.userid as Hostile_User
FROM   Monitors m
WHERE  m.BlockNum>7 AND u.userid = m.userid);
```

```
GNU nano 2.5.3 File: queries1.sh
#!/bin/sh
echo "set linesize 200
SELECT u.name as Hostile_User
FROM   Users u,Monitors
WHERE  u.userid = monitors.userid
AND EXISTS
(SELECT m.userid as Hostile_User
FROM   Monitors m
WHERE  m.BlockNum>7 AND u.userid = m.userid);
exit"| sqlplus64 -s "mtteshom/05169929@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"

mtteshom@europa:~$ ./queries1.sh

HOSTILE_USER
-----
Jessica Doe
```

2. List the companies that are in the same city as the users and have a rating greater than 3.5

```
SELECT name, COUNT(companyname) AS NUM_OF_Dating_Spots
FROM Users, OutsideCompanies, Locations
WHERE rating > 3.5 AND users.city = locations.city AND locations.locationid =
outsidecompanies.locationid
GROUP BY name
ORDER BY name;
```

```
GNU nano 2.5.3 File: queries2.sh
#!/bin/sh
echo "set linesize 200
SELECT name, COUNT(companyname) AS NUM_OF_Dating_Spots
FROM Users, OutsideCompanies, Locations
WHERE rating > 3.5 AND users.city = locations.city AND locations.locationid = outsidecompanies.locationid
GROUP BY name
ORDER BY name;
exit"| sqlplus64 -s "mtteshom/05169929@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

```
mtteshom@europa:~$ ./queries2.sh
```

NAME	NUM_OF_DATING_SPOTS
David Jackson	2
Frank Sinatra	2
Jessica Doe	2
Marilyn Monroe	2

3. List all the active users(A.K.A which users are actively liking others)

```
SELECT e.Name AS Active
FROM Users e,LikedUsers
WHERE e.UserID=Liker
AND EXISTS(
SELECT r.Name AS Likee
FROM Users r,LikedUsers
WHERE r.UserID=Likee )
ORDER BY e.UserID;
```

```
#!/bin/sh
echo "set linesize 200"
SELECT e.Name AS Active
FROM Users e,LikedUsers
WHERE e.UserID=Liker
AND EXISTS(
SELECT r.Name AS Likee
FROM Users r,LikedUsers
WHERE r.UserID=Likee )
ORDER BY e.UserID;
exit"| sqlplus64 -s "mtteshom/05169929@ (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

```
mtteshom@europa:~$ ./queries3.sh
```

```
ACTIVE
-----
Kanye West
David Jackson
Jessica Doe
Frank Sinatra
Frank Sinatra
Jimmy Ricky
Marilyn Monroe

7 rows selected.
```

4. List the number of likes for each 'liker' (a continuation of query 4)

```
SELECT e.name AS Liker, COUNT(r.name) AS NUMBER_OF_LIKES
FROM Users e, users r, LikedUsers
WHERE e.userid = liker AND r.userid = likee
GROUP BY e.name
ORDER BY e.name;
```

```
GNU nano 2.5.3 File: queries6.sh
#!/bin/sh
echo "set linesize 200"
SELECT e.name AS Liker, COUNT(r.name) AS NUMBER_OF_LIKES
FROM Users e, users r, LikedUsers
WHERE e.userid = liker AND r.userid = likee
GROUP BY e.name
ORDER BY e.name;
exit"| sqlplus64 -s "mtteshom/05169929@|DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

```
mtteshom@europa:~$ ./queries6.sh

LIKER                                NUMBER_OF_LIKES
-----
David Jackson                        1
Frank Sinatra                        2
Jessica Doe                          1
Jimmy Ricky                          1
Kanye West                           1
Marilyn Monroe                       1
```

5. List all the Likes for each user (an extension of query 4)

```
SELECT e.Name AS Liker, r.Name AS Likee
FROM Users e, Users r, LikedUsers
WHERE e.UserID=Liker AND r.UserID=Likee
ORDER BY e.UserID;
```

```
#!/bin/sh
echo "set linesize 200"
SELECT e.name AS Liker, r.name AS Likee
FROM Users e, users r, LikedUsers
WHERE e.userid = liker AND r.userid = likee
ORDER BY e.userid;
exit"| sqlplus64 -s "mtteshom/05169929@|DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

```
mtteshom@europa:~$ ./queries4.sh
```

LIKER	LIKEE
Kanye West	Jimmy Ricky
David Jackson	Marilyn Monroe
Jessica Doe	Marilyn Monroe
Frank Sinatra	Kanye West
Frank Sinatra	Marilyn Monroe
Jimmy Ricky	Frank Sinatra
Marilyn Monroe	Frank Sinatra

7 rows selected.

6. List all the matches(users who have liked each other)

```
SELECT m.name, l.name
FROM Users m, users l, likedusers
WHERE liker = m.userid AND likee = l.userid AND
EXISTS (
    SELECT liker
    FROM likedusers
    WHERE likee = m.userid AND liker = l.userid);
```

```
GNU nano 2.5.3 File: queries5.sh
#!/bin/sh
echo "set linesize 200"
SELECT DISTINCT m.name, l.name
FROM Users m, users l, likedusers
WHERE liker = m.userid AND likee = l.userid AND
EXISTS (
    SELECT liker
    FROM likedusers
    WHERE likee = m.userid AND liker = l.userid );
exit" | sqlplus64 -s "mtteshom/05169929@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521)))(CONNECT_DATA=(SID=orcl)))"
```

```
mtteshom@europa:~$ ./queries5.sh
```

NAME	NAME
Marilyn Monroe	Frank Sinatra
Frank Sinatra	Marilyn Monroe

mtteshom@europa:~\$

MENU TEMPLATE

./create_tables.sh

```
#!/bin/sh
echo "set linesize 200
CREATE TABLE Fake_Tablez(
    FakeA    NUMBER,
    FakeB    NUMBER
);
exit"| sqlplus64 -s "malkahil/06227490@DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

./populate_tables.sh

```
#!/bin/sh
echo "set linesize 200
INSERT INTO Fake_Tablez(FakeA, FakeB)
VALUES('420','69');
exit"| sqlplus64 -s "malkahil/06227490@DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

./queries.sh

```
#!/bin/sh
echo "set linesize 200
SELECT FakeA
FROM Fake_Tablez;
exit"| sqlplus64 -s "malkahil/06227490@DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

./drop_tables.sh

```
#!/bin/sh
echo "set linesize 200
DROP TABLE Fake_Tablez;
exit"| sqlplus64 -s "malkahil/06227490@DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

Bash ./menu.sh

```
Oracle All Inclusive Tool

Main Menu - Select Desired Operation(s):

<CTRL-Z Anytime to Enter Interactive CMD Prompt>

-----
M) View Manual

1) Drop Tables
2) Create Tables
3) Populate Tables
4) Query Tables

X) Force/Stop/Kill Oracle DB

E) End/Exit
Choose:
█
```

Choose:

2

Table created.

```
E) End/Exit
Choose:
3

1 row created.
```

Choose:

4

FAKEA

420

Choose:

1

Table dropped.