

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))"
```

```
mttreshom@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 "mttreshom/05169929@DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl))"
```

```
mttreshom@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 "mttreshom/05169929@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl)))"
```

```
mttreshom@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 "mttreshom/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.