

ex4.prm nest

[21bcs048@mepcolinux nested]\$cat nest

NESTED QUERIES

=====

UPDATE

=====

1)UPDATE THE MOBILE NO OF THE USER WHOSE NAME IS ABI.

SQL COMMAND:

UPDATE USER1 SET PHONENO=9087554422 WHERE NAME IN(SELECT NAME FROM USER1 WHERE NAME='ABI');

OUTPUT:

| USERID | NAME | PHONENO | MAIL | ADHAARID | LICENCENO | TID | ADDRESS |
|--------|--------|------------|------------------|----------|-----------|-----|---------|
| ----- | | | | | | | |
| -- | | | | | | | |
| 301 | SRI | 9087654321 | sri@gmail.com | 2838501 | 34678262 | 102 | MADURAI |
| 302 | BALA | 9098754321 | bala@gmail.com | 6578432 | 45367892 | 105 | SALEM |
| 303 | SURESH | 9098751231 | suresh@gmail.com | 4587234 | 23676459 | 104 | KARUR |
| 355 | ABI | 9087554422 | abi@gmail.com | 2815099 | 67312653 | 109 | DPI |
| 370 | VICKY | 9990003217 | vicky@gmail.com | 2815067 | 54231755 | 108 | HARUR |
| 330 | PRABU | 9991103217 | prabu@gmail.com | 2812367 | 87242751 | 107 | CHENNAI |

2)UPDATE THE TYPE OF THE CREDITCARD WHICH HAS THE CVV IS 76534.

SQL COMMAND.

UPDATE CREDITCARD SET TYPE='BUSINESS' WHERE TYPE IN (SELECT TYPE FROM CREDITCARD WHERE CVV=76534);

OUTPUT:

| CID | CVV | USERID TYPE |
|--------|-------|--------------|
| 291726 | 76534 | 303 BUSINESS |
| 29139 | 65453 | 301 STUDENT |
| 29000 | 60053 | 302 BUSINESS |
| 29450 | 11153 | 355 BUSINESS |
| 29780 | 22253 | 370 STUDENT |
| 11780 | 88253 | 330 BUSINESS |

=====

=====

RETRIEVING

=====

1)DISPLAY THE USER1 DETAILS WHERE THE ADDRESS LIKE '%AI'

SQL COMMAND:

SELECT * FROM USER1 WHERE ADDRESS IN (SELECT ADDRESS FROM USER1 WHERE ADDRESS LIKE '%AI');

OUTPUT:

| USERID NAME | PHONENO MAIL | ADHAARID | LICENCENO | TID ADDRESS |
|-------------|--------------------------|----------|-----------|-------------|
| 301 SRI | 9087654321 sri@gmail.com | 2838501 | 34678262 | 102 MADURAI |

330 PRABU 9991103217 prabu@gmail.com 2812367 87242751 107 CHENNAI

2)DISPLAY THE DISTINCT GID WHICH HAS GIFTCARD.

SQL COMMAND:

SELECT DISTINCT GID FROM GIFTCARD WHERE GID IN (SELECT GID FROM GIFTCARD);

OUTPUT:

| GID |
|-----|
| 500 |
| 501 |
| 505 |
| 515 |
| 555 |
| 590 |

3)DISPLAY INFORMATION OF USER1 WHO HAS GIFTCARD.

SQL COMMAND:

SQL> SELECT USERID,NAME,ADDRESS FROM USER1 U WHERE EXISTS (SELECT 1 FROM GIFTCARD G WHERE G.USERID=U.USERID);

OUTPUT:

| USERID | NAME | ADDRESS |
|--------|------|---------|
| 301 | SRI | MADURAI |

| | |
|------------|---------|
| 302 BALA | SALEM |
| 303 SURESH | KARUR |
| 355 ABI | DPI |
| 370 VICKY | HARUR |
| 330 PRABU | CHENNAI |

4)DISPLAY INFORMATION OF GIFTCARD WHO HAS NO USER1.

SQL COMMAND:

SQL> SELECT * FROM GIFTCARD WHERE NOT EXISTS (SELECT * FROM USER1 WHERE USERID=GID);

OUTPUT:

| GID | USERID | AMOUNT | GVALID |
|-----|--------|--------|-----------|
| 501 | 301 | 20000 | 09-APR-48 |
| 505 | 302 | 25000 | 08-JAN-44 |
| 515 | 303 | 35000 | 11-DEC-55 |
| 555 | 355 | 90000 | 01-JAN-00 |
| 500 | 370 | 50000 | 01-MAR-80 |
| 590 | 330 | 7000 | 02-MAY-40 |
| 900 | | 90000 | 09-JAN-90 |

5)CREATE A TABLE USER2 WITH USERID,NAME FROM USER1.

SQL COMMAND:

CREATE TABLE USER2 AS (SELECT USERID,NAME FROM USER1);

Table created.

OUTPUT:

SQL> SELECT * FROM USER2;

| USERID | NAME |
|--------|--------|
| 301 | SRI |
| 302 | BALA |
| 303 | SURESH |
| 355 | ABI |
| 370 | VICKY |
| 330 | PRABU |

6)INSERT VALUES INTO THE USER2 TABLE WHERE THE VALUES ARE TAKEN FROM TABLE USER1 WHOSE NAME IS END WITH RI.

SQL COMMAND:

```
INSERT INTO USER2 (SELECT USERID,NAME FROM USER1 WHERE ADDRESS=ANY(SELECT ADDRESS
FROM USER1 WHERE NAME LIKE '%RI'));
```

1 row created.

OUTPUT:

SQL> SELECT * FROM USER2;

| USERID | NAME |
|--------|------|
|--------|------|

301 SRI
302 BALA
303 SURESH
355 ABI
370 VICKY
330 PRABU
301 SRI
330 PRABU
301 SRI

7)DISPLAY THE GIFTCARD AMOUNT WHICH HAS MAXIMUM AMOUNT IN THE TABLE GIFTCARD.

SQL COMMAND:

```
SELECT AMOUNT FROM GIFTCARD GROUP BY AMOUNT HAVING COUNT(GID)=(SELECT  
MAX(COUNT(GID)) FROM GIFTCARD GROUP BY AMOUNT);
```

OUTPUT:

```
AMOUNT  
-----  
90000
```

8)DISPLAY THE USERID,NAME AND NEW COLUMN LOCATION FOR THE TABLE USER1.

SQL COMMAND:

```
SELECT USERID,NAME,'MADURAI' AS LOCATION FROM USER1;
```

```
USERID NAME      LOCATION  
-----
```

| | |
|------------|---------|
| 333 KARTHI | MADURAI |
| 301 SRI | MADURAI |
| 302 BALA | MADURAI |
| 303 SURESH | MADURAI |
| 355 ABI | MADURAI |
| 370 VICKY | MADURAI |
| 330 PRABU | MADURAI |

9)DISPLAY THE USER NAME AND ADDRESS FROM THE USER1 TABLE.

SQL COMMAND:

```
SELECT * FROM (SELECT NAME,ADDRESS FROM USER1) D1;
```

OUTPUT:

| NAME | ADDRESS |
|--------|---------|
| SRI | MADURAI |
| BALA | SALEM |
| SURESH | KARUR |
| ABI | DPI |
| VICKY | HARUR |
| PRABU | CHENNAI |

10)DISPLAY THE NAME,USERID FROM USER1 TABLE WHERE USER ADDRESS NOT END WITH AI.

SQL COMMAND:

```
SELECT USERID,NAME FROM USER1 WHERE ADDRESS NOT IN (SELECT ADDRESS FROM USER1
WHERE ADDRESS LIKE '%AI');
```

OUTPUT:

| USERID | NAME |
|--------|--------|
| 303 | SURESH |
| 355 | ABI |
| 370 | VICKY |
| 302 | BALA |

11)DISPLAY THE INFORMATION OF GFTCARD WHICH HAS USERR1.

SQL COMMAND:

```
SELECT * FROM GFTCARD WHERE EXISTS (SELECT * FROM USER1 WHERE USERID=GID);
```

no rows selected

12)DISPLAY THE GID,GVALID,COUNT OF GFTCARD IN USER AS COUNTUSE.

SQL COMMAND:

```
SQL> SELECT GID,GVALID,(SELECT COUNT(*) FROM USER1 WHERE USER1.USERID=GFTCARD.GID) AS
COUNTUSE FROM GFTCARD;
```

OUTPUT:

| GID | GVALID | COUNTUSE |
|-----|-----------|----------|
| 501 | 09-APR-48 | 0 |

| | |
|---------------|---|
| 505 08-JAN-44 | 0 |
| 515 11-DEC-55 | 1 |
| 555 01-JAN-00 | 0 |
| 500 01-MAR-80 | 2 |
| 590 02-MAY-40 | 1 |
| 900 09-JAN-90 | 0 |

=====

=====

USING SOME AND ALL OPERATOR

=====

1)

SELECT * FROM CREDITCARD WHERE CID >ALL(SELECT CID FROM CREDITCARD WHERE CID<20000)

2 ;

| CID | CVV | USERID TYPE |
|-----|-----|-------------|
|-----|-----|-------------|

| | | |
|--------|-------|--------------|
| 29000 | 60053 | 302 BUSINESS |
| 29139 | 65453 | 301 STUDENT |
| 29450 | 11153 | 355 TRAVEL |
| 29780 | 22253 | 370 STUDENT |
| 291726 | 76534 | 303 TRAVEL |

2) SELECT GID,GVALID FROM GIFTCARD WHERE AMOUNT=SOME(SELECT AMOUNT FROM GIFTCARD WHERE AMOUNT>100);

| GID GVALID |
|------------|
|------------|

| |
|---------------|
| 501 09-APR-48 |
| 505 08-JAN-44 |
| 515 11-DEC-55 |

555 01-JAN-00

900 09-JAN-90

500 01-MAR-80

590 02-MAY-40

3)SELECT GID,GVALID FROM GIFTCARD WHERE AMOUNT>SOME(SELECT AMOUNT FROM GIFTCARD WHERE AMOUNT>7000);

GID GVALID

555 01-JAN-00

900 09-JAN-90

500 01-MAR-80

515 11-DEC-55

505 08-JAN-44

4) SELECT CID,TYPE FROM CREDITCARD WHERE CVV>SOME(SELECT CVV FROM CREDITCARD WHERE CVV>5000);

CID TYPE

11780 BUSINESS

291726 TRAVEL

29139 STUDENT

29000 BUSINESS

29780 STUDENT

=====

CORRELATED SUBQUERIES

=====

1)DISPLAY THE DETAILS OF GIFTCARD WHOSE AMOUNT IS GREATER THAN MAXIMUM SUM OF THE AMOUNT OF THE GIFTCARD.

SQL COMMAND:

```
SELECT GID,SUM(AMOUNT) FROM GIFTCARD GROUP BY GID HAVING SUM(AMOUNT)=(SELECT  
MAX(SUM(AMOUNT)) FROM GIFTCARD GROUP BY GID);
```

OUTPUT:

| GID | SUM(AMOUNT) |
|-----|-------------|
| 555 | 90000 |
| 900 | 90000 |

2)DISPLAY THE GIFTCARD WHOSE AMOUNT IS GREATER THAN AVERAGE AMOUNT ARE MANAGED BY THE GIFTCARD.

SQL COMMAND:

```
SELECT * FROM GIFTCARD G1 WHERE AMOUNT>=(SELECT AVG(AMOUNT) FROM GIFTCARD G2  
WHERE G1.GID=G2.GID);
```

OUTPUT:

| GID | USERID | AMOUNT | GVALID |
|-----|--------|--------|-----------|
| 501 | 301 | 20000 | 09-APR-48 |
| 505 | 302 | 25000 | 08-JAN-44 |
| 515 | 303 | 35000 | 11-DEC-55 |
| 555 | 355 | 90000 | 01-JAN-00 |
| 500 | 370 | 50000 | 01-MAR-80 |

590 330 7000 02-MAY-40

3)DISPLAY THE DETAILS OF GIFTCARD WHICH IS MANAGED BY USER.

SQL COMMAND:

```
SELECT * FROM GIFTCARD WHERE USERID IN (SELECT USERID FROM USER1);
```

OUTPUT:

| GID | USERID | AMOUNT | GVALID |
|-----|--------|--------|-----------|
| 501 | 301 | 20000 | 09-APR-48 |
| 505 | 302 | 25000 | 08-JAN-44 |
| 515 | 303 | 35000 | 11-DEC-55 |
| 555 | 355 | 90000 | 01-JAN-00 |
| 500 | 370 | 50000 | 01-MAR-80 |
| 590 | 330 | 7000 | 02-MAY-40 |

=====

==

SUBQUERY IN SELECT

=====

1)DISPLAY THE AVERAGE AMOUNT AS AVGAMOUNT FOR ALL GID AND GVALID.

SQL COMMAND:

```
SELECT GID,GVALID,(SELECT AVG(AMOUNT) FROM GIFTCARD) AS AVGAMOUNT FROM GIFTCARD;
```

OUTPUT:

| GID | GVALID | AVGAMOUNT |
|-----|-----------|------------|
| 501 | 09-APR-48 | 45285.7143 |
| 505 | 08-JAN-44 | 45285.7143 |
| 515 | 11-DEC-55 | 45285.7143 |
| 555 | 01-JAN-00 | 45285.7143 |
| 500 | 01-MAR-80 | 45285.7143 |
| 590 | 02-MAY-40 | 45285.7143 |
| 900 | 09-JAN-90 | 45285.7143 |

2)DISPLAY USERID,NAME,COUNT FROM THE USER1 TABLE.

SQL COMMAND:

```
SELECT USERID,NAME,(SELECT COUNT(*) FROM CREDITCARD WHERE  
USER1.USERID=CREDITCARD.CID) AS COUNT FROM USER1;
```

OUTPUT:

| USERID | NAME | COUNT |
|--------|--------|-------|
| 301 | SRI | 1 |
| 302 | BALA | 1 |
| 303 | SURESH | 1 |
| 355 | ABI | 1 |
| 370 | VICKY | 2 |
| 330 | PRABU | 1 |

3)DISPLAY THE GID AND AMOUNT FOR USERID PRESENT IN GIFTCARD TABLE.

SQL COMMAND:

```
SELECT GID,AMOUNT FROM GIFTCARD WHERE USERID IN(SELECT USERID FROM USER1 WHERE  
GIFTCARD.USERID=USER1.USERID);
```

OUTPUT:

| GID | AMOUNT |
|-----|--------|
| 501 | 20000 |
| 505 | 25000 |
| 515 | 35000 |
| 555 | 90000 |
| 500 | 50000 |
| 590 | 7000 |