15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

1.FIND THE AVERAGE BALANCE FOR EACH CUSTOMER WHO LIVES IN MADURAI AND HAS AT LEAST THREE ACCOUNT.

SQL> select depositor.customer_name, avg(balance) from depositor, account, customer where depositor.account_no = account.account_no and depositor.customer_name = customer.customer_name and customer_city = 'mardurai' group by depositor.customer_name having count(distinct depositor.account_no)>=2**;**

CUSTOMER_NAME AVG(BALANCE)

------------------------------ ------------

aditya 4750

2. FIND THE AVERAGE LOAN AMOUNT OF EACH CUSTOMER WHO LIVES IN MADURAI AND HAS AT LEAST TWO LOANS.

SQL> select borrower.customer_name, avg(amount) from borrower, loan,customer where borrower.loan_no=loan.loan_no and borrower.customer_name=customer.customer_name and customer_city='mardurai' group by borrower.customer_name having count(distinct borrower.loan_no)>=2;

CUSTOMER_NAME AVG(AMOUNT)

-------------------- -----------

aditya 22500

SET MEMBERSHIP:

USING KEYWORD IN:

3.FIND THE CUSTOMER WHO LIVES IN CHENNAI OR MADURAI.

SQL> select customer_name from customer where customer_city in ('trichy','mardurai');

CUSTOMER_NAME

----

aditya

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

ankit

atif

akshit

akshil

anshul

freya

faizan

8 rows selected.

4.FIND THE ACCOUNT NUMBER WHOSE BALANCE IS BETWEEN 1000 AND 5000.

```
SQL> select account_no from account where balance between 1000 and 5000;

ACCOUNT_NO
----------
10001
10002
10003
10004
10005
10006
10007
10008
10009
10011
10012

ACCOUNT_NO
----------
10013

12 rows selected.
```

5. FIND THE ACCOUNT NUMBER WHOSE BALANCE IS NOT BETWEEN 1000 AN 5000.

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

```
SQL> select account_no from account where balance not between 1000 and 5000;

ACCOUNT_NO
----------
10010
```

6. FIND THE CUSTOMER WHO HAS LOAN AND ACCOUNT.

```
SQL> select distinct customer_name from borrower where customer_name in(select
customer_name from depositor);


CUSTOMER_NAME
------------------------------
atif
kadam
namya
aman
ankit
aditya
nitya


7 rows selected.
```

7. FIND ALL CUSTOMERS WHO HAVE BOTH AN ACCOUNT AND LOAN AT icici BANK

```
select  customer_name from borrower,loan where borrower.loan_no=loan.loan_no and
branch_name='icici' and (branch_name,customer_name) in (select branch_name, customer_name
from depositor, account where depositor.account_no=account.account_no);


no rows selected
```

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

8. FIND ALL CUSTOMERS WHO DO HAVE LOAN AT THE BANK, BUT DO NOT HAVE AN ACCOUNT AT the bank.

SQL> select distinct customer_name from borrower where customer_name not in(select customer_name from depositor);

CUSTOMER_NAME

---

raju

atif

nitya

ankit

namya

ramesh

shweta

aman

kadam

kartik

rakesh

CUSTOMER_NAME

---

ankita

12 rows selected.

9. FIND ALL CUSTOMERS WHO DO HAVE ACCOUNT AT THE BANK BUT DO NOT

HAVE LOAN AT THE bank.

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

SQL> select distinct customer_name from depositor where customer_name not in(select customer_name from borrower);

CUSTOMER_NAME

---

amish

akshit

shwet

atif

akshil

namya

kadam

freya

aman

ankit

aditya

CUSTOMER_NAME

---

manish

faizaan

astha

nitya

anshul

16 rows selected.

10. FIND ALL ACCOUNT HOLDER NAME EXCEPT ADITYA AND KADAM

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

SQL> select distinct customer_name from depositor where customer_name not in('aditya','kadam');

CUSTOMER_NAME

---

aditya

akshil

akshit

aman

amish

ankit

anshul

astha

atif

faizaan

freya

CUSTOMER_NAME

---

kadam

manish

namya

nitya

shwet

16 rows selected.

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

SET COMPARAISON:

11. FIND THE NAMES OF ALL BRANCHES THAT HAVE ASSETS GREATER THAN

THOSE OF AT LEAT ONE BRANCH LOCATED IN SALEM.

SQL> select distinct t.branch_name from branch t, branch s where t.assets>s.assets and s.branch_city='salem';

BRANCH_NAME

---

iob

sbi

pnb

12. FIND THE NAMES OF ALL BRANCHES THAT HAVE ASSETS GREATER THAN

THOSE OF AT LEAT ONE BRANCH LOCATED IN MADURAI USING 'SOME' KEYWORD

SQL> select branch_name from branch where assets>some(select assets from branch where branch_city='mardurai');

BRANCH_NAME

---

pnb

sbi

iob

13. FIND THE NAMES OF ALL BRANCHES THAT HAVE AN ASSET VALUE GREATER THAN THAT OF EACH BRANCH IN MADURAI

SQL> select branch_name from branch where assets>all(select assets from branch where branch_city='mardurai');

BRANCH_NAME

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

iob

pnb

sbi

14.FIND THE BRANCH THAT HAS THE HIGHEST AVERAGE BALANCE.

SQL> select branch_name from account group by branch_name having avg(balance)>=all (select avg(balance)from account group by branch_name);

BRANCH_NAME

Sbi

15. FIND THE BRANCH THAT HAS THE HIGHEST AVERAGE BALANCE.

SQL> select branch_name,avg(balance) from account group by branch_name having avg(balance)<=all(select avg(balance) from account group by branch_name);

BRANCH_NAME AVG(BALANCE)

--- ---

hdfc 3000

TEST FOR EMPTY RELATION:

16. FIND ALL CUSTOMERS WHO HAVE BOTH AN ACCOUNT AND LOAN AT THE BANK

SQL> select customer_name from borrower where exists(select * from depositor where depositor.customer_name=borrower.customer_name);

CUSTOMER_NAME

---

aditya

Aditya

15IT302J-DATABASE MANAGEMENT SYSTEMS

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

17.FIND ALL CUSTOMERS WHO DO NOT HAVE BOTH AN ACCOUNT AND LOAN AT THE BANK

SQL> select customer_name from borrower where not exists(select * from depositor where depositor.customer_name=borrower.customer_name);

CUSTOMER_NAME

---

kadam

kartik

rakesh

raju

ankita

namya

atif

nitya

shweta

ramesh

ankit

CUSTOMER_NAME

---

aman

12 rows selected.

18. FIND ALL CUSTOMERS WHO HAVE AN ACCOUNT AT ALL BRANCHES LOCATED IN MADURAI

SQL> select distinct s.customer_name from depositor s where not exists((select branch_name from branch where branch_city='sbi')minus(select r.branch_name from depositor t ,account r where t.account_no=r.account_no and s.customer_name=t.customer_name));

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

CUSTOMER_NAME

---

aditya

VIEWS:

19. CREATE A VIEW ALLCUSTOMER WITH ACCOUNT AND LOAN DETAILS.

```
SQL> create view allcustomer as(select branch_name,customer_name
  2  from depositor,account where
  3  depositor.account_no=account.account_no) union(select branch_name,customer_name from
borrower,loan where borrower.loan_no=loan.loan_no);

View created.

SQL> select * from allcustomer;

BRANCH_NAME         CUSTOMER_NAME
-------------------- ------------------------------
hsbc                 aditya
hsbc                 kadam
hsbc                 namya
hsbc                 rakesh
icici                aditya
icici                aman
icici                ramesh
icici                shweta
iob                  ankit
iob                  raju
```

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

pnb ankita

BRANCH_NAME CUSTOMER_NAME

---------- ----------

pnb atif

pnb nitya

sbi aditya

14 rows selected.

20. CREATE A VIEW BRTOT WITH BRANCH NAME AND LOAN AMOUNT IN

SORTED LOAN AMOUNT AND CLUSTERED BASED ON BRANCH NAME.

```
SQL> create view brtot(branch_name,totloan)as select
  2  branch_name,sum(amount)from loan group by branch_name;
```

View created.

```
SQL> select * from brtot;
```

BRANCH_NAME TOTLOAN

---------- ----------

hsbc 45000

iob 55000

icici 80000

pnb 30000

UPDATE:

21. UPDATE THE BALANCE BY CREDIT CASH GIFT 100 FOR ALL.

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

SQL> update account set balance=balance+100;

14 rows updated.

SQL> select * from account;

ACCOUNT_NO	BRANCH_NAME	BALANCE
10001	icici	1100
10002	sbi	1600
10003	hdfc	2100
10004	hsbc	2600
10005	icici	3100
10006	sbi	3600
10007	hdfc	4100
10008	hsbc	4600
10009	icici	5100
10010	sbi	5600
10011	sbi	5100

ACCOUNT_NO	BRANCH_NAME	BALANCE
10012	hsbc	4600
10013	icici	3400
10015	sbi	

14 rows selected.

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

22. UPDATE THE BALANCE WITH BALANCE *1.05.

13 rows updated.

SQL> select * from account;

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10001 icici 1155

10002 sbi 1680

10003 hdfc 2205

10004 hsbc 2730

10005 icici 3255

10006 sbi 3780

10007 hdfc 4305

10008 hsbc 4830

10009 icici 5355

10010 sbi 5880

10011 sbi 5355

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10012 hsbc 4830

10013 icici 3570

10015 sbi

14 rows selected.

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

23. UPDATE THE BALANCE OF ACCOUNT WITH BALANCE *1.06 WHO MAINTAINS BALANCE GREATER THAN AVERGAGE BALANCE.

SQL> update account set balance=balance*1.06where balance>(select

2

SQL> update account set balance=balance*1.06where balance>=(select avg(balance) from account);

7 rows updated.

SQL> select * from account;

ACCOUNT_NO	BRANCH_NAME	BALANCE
10001	icici	1155
10002	sbi	1680
10003	hdfc	2205
10004	hsbc	2730
10005	icici	3255
10006	sbi	4006.8
10007	hdfc	4563.3
10008	hsbc	5119.8
10009	icici	5676.3
10010	sbi	6232.8
10011	sbi	5676.3

ACCOUNT_NO	BRANCH_NAME	BALANCE

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10012 hsbc 5119.8

10013 icici 3570

10015 sbi

14 rows selected.

24. UPDATE THE ACCOUNT BALANCE WITH FOLLOWING CONDITION

o IF BALANCE GRETER THAN 2000 WITH INTEREST 30%

o IF BALANCE IN BETWEEN 1000 AND 2000 WITH INTEREST 10%

o IF BALANCE IN BETWEEN 500 AND 1000 WITH INTEREST 5%

o OTHERS WITH 1% INTEREST.

SQL> select * from account;

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10001 icici 1155

10002 sbi 1680

10003 hdfc 2205

10004 hsbc 2730

10005 icici 3255

10006 sbi 4006.8

10007 hdfc 4563.3

10008 hsbc 5119.8

10009 icici 5676.3

10010 sbi 6232.8

10011 sbi 5676.3

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10012 hsbc 5119.8

10013 icici 3570

10015 sbi

14 rows selected.

SQL> update account set balance=case when balance>=500 and balance<=1000 then balance*0.05 when balance>=1000 and balance<=2000 then balance * 0.10 when balance>2000 then balance*0.3 else balance*0.01 end;

14 rows updated.

SQL> select *from account;

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10001 icici 115.5

10002 sbi 168

10003 hdfc 661.5

10004 hsbc 819

10005 icici 976.5

10006 sbi 1202.04

10007 hdfc 1368.99

10008 hsbc 1535.94

10009 icici 1702.89

10010 sbi 1869.84

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10011 sbi 1702.89

ACCOUNT_NO BRANCH_NAME BALANCE

---------- --------------- ----------

10012 hsbc 1535.94

10013 icici 1071

10015 sbi

14 rows selected.

JOIN:

CARTESIAN JOIN:

25. DISPLAY ALL RECORDS OF ACCOUNT WITH BRANCH DETAILS.

SQL> select account.account_no,account.balance, branch.branch_name, branch.branch_city, branch.assets from account,branch where account.branch_name=branch.branch_name;

ACCOUNT_NO BALANCE BRANCH_NAME BRANCH_CITY ASSETS

---------- ---------- --------------- ------------------------------ ----------

10007 1368.99 hdfc salem 40000

10003 661.5 hdfc salem 40000

10008 1535.94 hsbc ahemdabad 40000

10012 1535.94 hsbc ahemdabad 40000

10004 819 hsbc ahemdabad 40000

10009 1702.89 icici mardurai 40000

10005 976.5 icici mardurai 40000

10001 115.5 icici mardurai 40000

10013 1071 icici mardurai 40000

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10002 168 sbi trichy 80000

10011 1702.89 sbi trichy 80000

ACCOUNT_NO BALANCE BRANCH_NAME BRANCH_CITY ASSETS

---------- ---------- --------------- ------------------------------ ----------

10015 sbi trichy 80000

10006 1202.04 sbi trichy 80000

10010 1869.84 sbi trichy 80000

14 rows selected.

NATURAL JOIN:

26. DISPLAY ALL ACCOUNT DETAILS ALONG WITH BRANCH USING NATURAL JOIN.

SQL> select a.account_no, a.branch_name, b.branch_name, b.branch_city from account a, branch b where a.branch_name = b.branch_name;

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10007 hdfc hdfc salem

10003 hdfc hdfc salem

10008 hsbc hsbc ahemdabad

10012 hsbc hsbc ahemdabad

10004 hsbc hsbc ahemdabad

10009 icici icici mardurai

10005 icici icici mardurai

10001 icici icici mardurai

10013 icici icici mardurai

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10002 sbi sbi trichy

10011 sbi sbi trichy

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10015 sbi sbi trichy

10006 sbi sbi trichy

10010 sbi sbi trichy

14 rows selected.

LEFT OUTER JOIN:

27. FIND ALL ACCOUNT NUMBER WITH BRANCH DETAILS

SQL> select a.account_no, a.branch_name, b.branch_name,b.branch_city from account a,branch b where a.branch_name(+)=b.branch_name;

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10007 hdfc hdfc salem

10003 hdfc hdfc salem

10008 hsbc hsbc ahemdabad

10012 hsbc hsbc ahemdabad

10004 hsbc hsbc ahemdabad

10009 icici icici mardurai

10005 icici icici mardurai

10001 icici icici mardurai

10013 icici icici mardurai

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

iob chennai

pnb mumbai

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10002 sbi sbi trichy

10011 sbi sbi trichy

10015 sbi sbi trichy

10006 sbi sbi trichy

10010 sbi sbi trichy

16 rows selected.

SQL> select account.account_no, account.branch_name, branch.branch_name, branch.branch_city from account left outer join branch on account.branch_name=branch.branch_name;

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10013 icici icici mardurai

10009 icici icici mardurai

10005 icici icici mardurai

10001 icici icici mardurai

10015 sbi sbi trichy

10011 sbi sbi trichy

10010 sbi sbi trichy

10006 sbi sbi trichy

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10002 sbi sbi trichy

10007 hdfc hdfc salem

10003 hdfc hdfc salem

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10012 hsbc hsbc ahemdabad

10008 hsbc hsbc ahemdabad

10004 hsbc hsbc ahemdabad

14 rows selected.

RIGHT OUTER JOIN:

28. FIND ALL ACCOUNT NUMBER WITH BRANCH DETAILS.

SQL> select a.account_no, a.branch_name, b.branch_name,b.branch_city from account a,branch b where a.branch_name = b.branch_name (+);

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10013 icici icici mardurai

10009 icici icici mardurai

10005 icici icici mardurai

10001 icici icici mardurai

10015 sbi sbi trichy

10011 sbi sbi trichy

10010 sbi sbi trichy

10006 sbi sbi trichy

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10002 sbi sbi trichy

10007 hdfc hdfc salem

10003 hdfc hdfc salem

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10012 hsbc hsbc ahemdabad

10008 hsbc hsbc ahemdabad

10004 hsbc hsbc ahemdabad

14 rows selected.

SQL> select account.account_no, account.branch_name,

2 branch.branch_name, branch.branch_city from account right outer

3 join branch on account.branch_name=branch.branch_name;

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10007 hdfc hdfc salem

10003 hdfc hdfc salem

10008 hsbc hsbc ahemdabad

10012 hsbc hsbc ahemdabad

10004 hsbc hsbc ahemdabad

10009 icici icici mardurai

10005 icici icici mardurai

10001 icici icici mardurai

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

10013 icici icici mardurai

iob chennai

pnb mumbai

ACCOUNT_NO BRANCH_NAME BRANCH_NAME BRANCH_CITY

---------- --------------- --------------- ------------------------------

10002 sbi sbi trichy

10011 sbi sbi trichy

10015 sbi sbi trichy

10006 sbi sbi trichy

10010 sbi sbi trichy

16 rows selected.

NATURAL LEFT OUTER JOIN:

29. FIND ALL ACCOUNT NO WITH BRANCH DETAILS.

SQL> select * from account natural left outer join branch;

BRANCH_NAME ACCOUNT_NO BALANCE BRANCH_CITY ASSETS

--------------- ---------- ---------- ------------------------------ ----------

icici 10013 1071 mardurai 40000

icici 10009 1702.89 mardurai 40000

icici 10005 976.5 mardurai 40000

icici 10001 115.5 mardurai 40000

sbi 10015 trichy 80000

sbi 10011 1702.89 trichy 80000

sbi 10010 1869.84 trichy 80000

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

sbi 10006 1202.04 trichy 80000

sbi 10002 168 trichy 80000

hdfc 10007 1368.99 salem 40000

hdfc 10003 661.5 salem 40000

BRANCH_NAME ACCOUNT_NO BALANCE BRANCH_CITY ASSETS

--- --- --- --- ---

hsbc 10012 1535.94 ahemdabad 40000

hsbc 10008 1535.94 ahemdabad 40000

hsbc 10004 819 ahemdabad 40000

14 rows selected.

NATURAL RIGHT OUTER JOIN:

30. FIND ALL ACCOUNT NO WITH BRANCH DETAILS.

SQL> select * from account natural left outer join branch;

BRANCH_NAME ACCOUNT_NO BALANCE BRANCH_CITY ASSETS

--- --- --- --- ---

icici 10013 1071 mardurai 40000

icici 10009 1702.89 mardurai 40000

icici 10005 976.5 mardurai 40000

icici 10001 115.5 mardurai 40000

sbi 10015 trichy 80000

sbi 10011 1702.89 trichy 80000

sbi 10010 1869.84 trichy 80000

sbi 10006 1202.04 trichy 80000

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

---

sbi 10002 168 trichy 80000

hdfc 10007 1368.99 salem 40000

hdfc 10003 661.5 salem 40000

BRANCH_NAME ACCOUNT_NO BALANCE BRANCH_CITY ASSETS

--- --- --- --- ---

hsbc 10012 1535.94 ahemdabad 40000

hsbc 10008 1535.94 ahemdabad 40000

hsbc 10004 819 ahemdabad 40000

14 rows selected.

KEY CONSTRAINT:

31. ADD FOREIGN KEY TO BARNCH NAME IN ACCOUNT TABLE TO REFER BRANCH NAMES IN BRANCH TABLE WITH CONSTRAINT NAME

SQL> alter table account add constraint acbr foreign key(branch_name) references branch(branch_name)deferrable initially immediate;

Table altered**.**

32. ADD FOREIGN KEY TO BRANCH NAME IN LOAN TABLE TO REFER BRANCH NAMES IN BRANCH TABLE WITH CONSTAINT NAME.

SQL> alter table loan add constraint lobr foreign key(branch_name) references branch(branch_name) deferrable initially deferred;

Table altered.

33. ENFORE THE CONSTRAINT IMMEDIATELY ON THE TABLE.

SQL> alter session set constraint=immediate;

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

Session altered.

34. ENFORE THE CONSTAINT WITH DEFERRED OPTION.

SQL> alter session set constraint=deferred;

Session altered.

35. CHECK THE FOREGIN KEY CONSTRAINTS IS VALID ON ACCOUNT TABLE.

SQL> alter table account modify constraint acbr enable validate;

Table altered.

36. DISBALE THE VALIDATE OPTION FOR CONSTRAINT ON ACCOUNT TABLE.

alter table loan modify constraint lobr enable novalidate

2 ;

Table altered.

37. DISABLE THE FOREIGN KEY CONSTRAINTS IN LOAN TABLE

SQL> alter table account modify constraint acbr disable novalidate;

Table altered.

38. DROP THE PRIMARY KEY OF ACCOUNT TABLE

SQL> alter table account drop primary key;

Table altered**.**

DROPPING A TABLE:

39. DROP THE USER DEFINED CONSTRAINT ON ACCOUNT TABLE.

SQL> alter table account drop constraint acbr;

Table altered.

40. DROP THE USER DEFINED CONSTRAINT ON LOAN TABLE.

DATE-:11/8/19
EXPERIMENT-3
NAME-: NANDISH SHAH
REG NO-:RA1711008010143

4. SUBQUERIES WITH SET OPERATION, JOIN AND CONSTRAINTS

SQL> alter table loan drop constraint lobr;

Table altered.