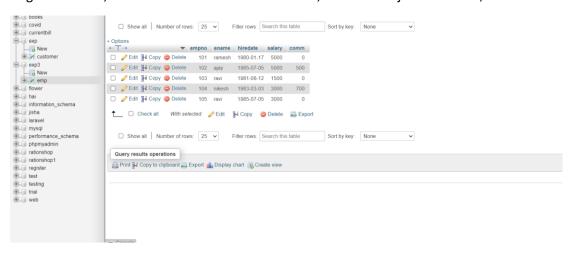
ASSIGNMENT 3-ADBMS
Submitted by: Jisha Chacko S2RMCA A
SZRMCA A ROLLNO:44

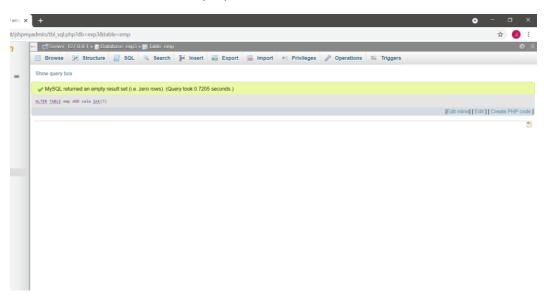
1.Create a table emp with attributes empno number(4)as primary key, ename char(10), hiredate, salary, commission

insert 5 rows of data 101 Ramesh 17-Jan-1980 5000; 102 Ajay 05-Jul-1985 5000 500; 103 Ravi 12-Aug-1981 1500; 104 Nikesh 03-Mar-1983 3000 700; 105 Ravi 05-jul-1985 3000;



2. Modifying the structure of tables

a.Add new columns: sal number(7,2)



ALTER TABLE EMP ADD SAL INTEGER(7);

b.Dropping a column from a table: sal



ALTER TABLE EMP DROP sal;

- c.Modifying existing column :ename varchar2(15)
- c.Modifying existing column :ename varchar2(15);



d.Renaming the tables: emp to emp1

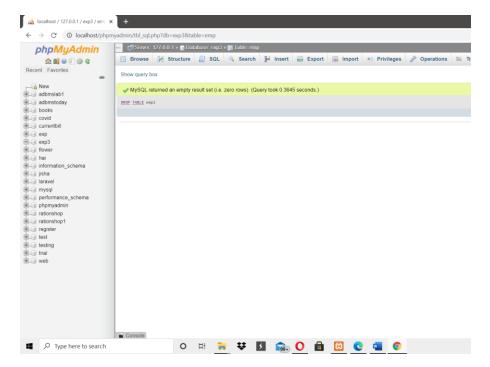


e.truncating the tables:emp1

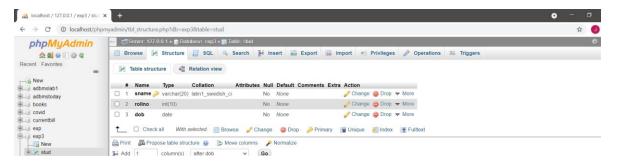
truncate t;

f.Destroying tables:emp

drop table emp1;



3.Create a table stud with sname varchar2(20) primary key , rollno number(10) not null,dob date not null



EXPERIMENT NO.5: AGGREGATE FUNCTION

1.List total loan

SELECT SUM (AMOUNT) FROM BORROW;



2.List total deposit

SELECT SUM (AMOUNT) FROM DEPOSIT;



3.List total loan taken from KAROLBAGH branch

SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='KAROLBAGH';



4.List total deposit of customers having account date later than 1-Jan-96

SELECT SUM(AMOUNT) from deposit where adate>'1995-03-01';



5.List total deposit of customers living in city NAGPUR

SELECT SUM(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME;



6.List maximum deposit of customer living in Bombay

SELECT MAX(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1 WHERE C1.CITY = 'Bombay' AND C1.CNAME = D1.CNAME;



7.List total deposit of customer having branch in BOMBAY

SELECT SUM (AMOUNT) from deposit, BRANCH where city='BOMBAY';



8. Count total number of branch cities

SELECT COUNT(DISTINCT (CITY)) FROM BRANCH;



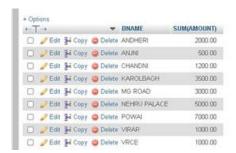
9. Count total number of customers cities

SELECT count(city) from CUSTOMER;



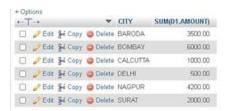
10. Give branch names and branch wise deposit

SELECT BNAME, SUM(AMOUNT) FROM DEPOSIT GROUP BY BNAME;



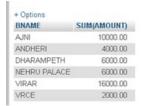
11. Give city wise name and branch wise deposit

SELECT C1.CITY, SUM(D1.AMOUNT) FROM CUSTOMER C1, DEPOSIT D1 WHERE D1.CNAME = C1.CNAME GROUP BY C1.CITY;



12. Give the branch wise loan of customer living in NAGPUR

SELECT BNAME, SUM(AMOUNT) FROM BORROW, CUSTOMER WHERE city = 'NAGPUR' GROUP BY BNAME;



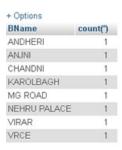
13. Count total number of customers

SELECT count(cname) from CUSTOMER;



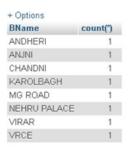
14. Count total number of depositors branch wise

SELECT BName, count (*)from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME



15. Count total number of depositors branch wise

SELECT BName, count (*)from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME



16. Give maximum loan from branch VRCE

SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='VRCE';



17. Give the number of customers who are depositors as well as borrowers

SELECT COUNT(DISTINCT (CNAME)) FROM CUSTOMER WHERE CNAME IN ((SELECT CNAME FROM DEPOSIT) INTERSECT (SELECT CNAME FROM BORROW));



EXPERIMENT NO.6: SET OPERATIONS

1. List all the customers who are depositors but not borrowers.

SELECT CNAME FROM DEPOSIT MINUS SELECT CNAME FROM BORROW;

2. List all the customers who are both depositors and borrowers

SELECT CNAME FROM DEPOSIT UNION (SELECT CNAME FROM BORROW);



3. List all the depositors having deposit in all the branches where Sunil is having Account

SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL');



4. List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI

SELECT C1.CNAME FROM CUSTOMER C1, DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY', 'DELHI');



5. List all the depositors living in city NAGPUR

SELECT Distinct(CUSTOMER.CNAME) from CUSTOMER, DEPOSIT WHERE City='NAGPUR';



6. List all the depositors living in the city NAGPUR and having branch in city BOMBAY

SELECT C1.CNAME FROM CUSTOMER C1, DEPOSIT D1, BRANCH B1 WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY');



7. List the branch cities of Anil and Sunil

SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL','ANIL');



11. List all the cities where branches of Anil and Sunil are locate

SELECT B1.CITY FROM BRANCH B1 WHERE B1.BNAME IN (SELECT D1.BNAME FROM DEPOSIT D1 WHERE D1.CNAME IN ('ANIL', 'SUNIL'));



EXPERIMENT NO.7: JOIN OR CARTESIAN PRODUCT

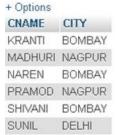
1. Give name of customers having living city BOMBAY and branch city NAGPUR

SELECT D1.CNAME,D1.BNAME,C1.CNAME,C1.CITY,B1.CITY,B1.BNAME FROM DEPOSIT D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'BOMBAY' AND B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND D1.BNAME = B1.BNAME;



2. Give names of customers having the same living city as their branch city

SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH, customer WHERE BRANCH.city = customer.city;



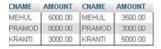
3. Give names of customers who are borrowers as well as depositors and having city NAGPUR.

SELECT C1.CNAME FROM CUSTOMER C1, DEPOSIT D1, BORROW B1 WHERE C1.CITY='NAGPUR' AND C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME;



4. Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.

SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM BORROW BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND D1.AMOUNT > 1000 AND BR1.AMOUNT > 2000;



5. Give names of depositors having the same branch as the branch of Sunil

SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL');



6. Give names of borrowers having loan amount greater than the loan amount of Pramod

SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2 WHERE BR2.CNAME = 'PRAMOD');



7. Give the name of the customer living in the city where branch of depositor Sunil is located.

SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D WHERE D.CNAME='SUNIL'));

CNAME

8. Give branch city and living city of Pramod

SELECT B1.CITY, C1.CITY FROM BRANCH B1,CUSTOMER C1, DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME = D1.CNAME AND D1.BNAME = B1.BNAME;



9. Give branch city of Sunil and branch city of Anil

SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME = B1.BNAME AND D1.CNAME IN ('SUNIL','ANIL');



10. Give the living city of Anil and the living city of Sunil

SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE C1.CNAME = 'ANIL' OR C1.CNAME = 'SUNIL';





