CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH

COMPUTER SCIENCE & ENGINEERING

Class: 4CSE1

Subject Name: Database Management System

Semester: IV

Subject Code: CE246

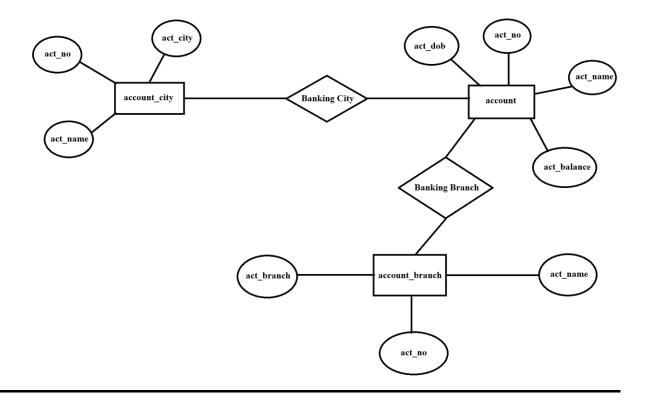
Academic year: 2021-22

Mini Project Title: Transaction Management System

Group Members: Nisarg Chaniyara (ID-19DCS016)

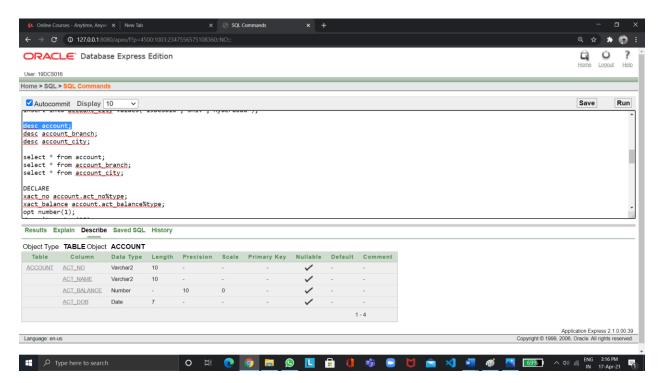
Param Jani (ID-19DCS042)

ER Diagram For The Project



Tables-Data Dictionary

account table

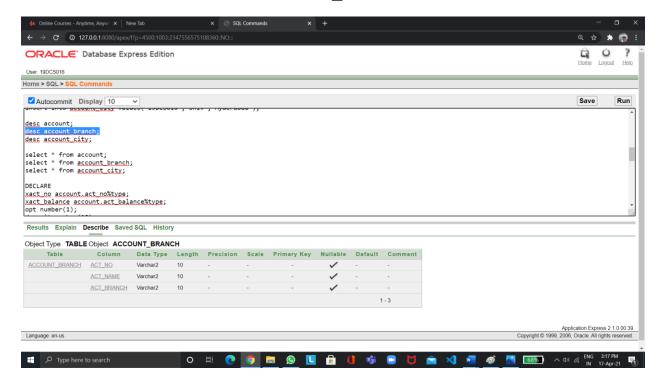


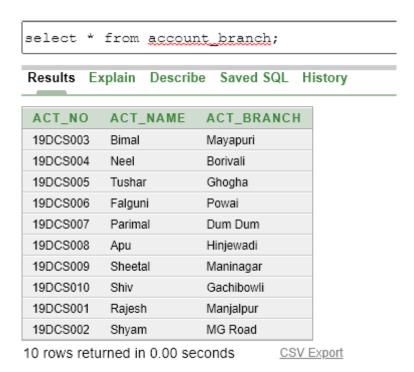


10 rows returned in 0.00 seconds

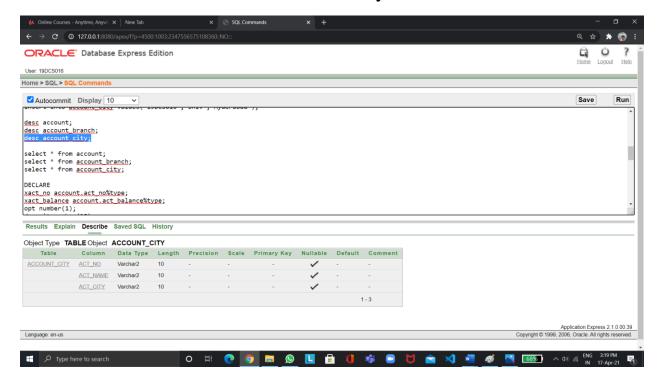
CSV Export

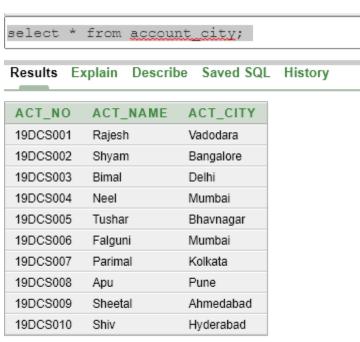
account_branch





account_city





10 rows returned in 0.00 seconds CSV Export

Code Of Project

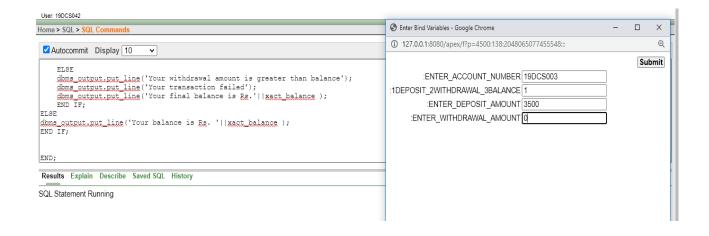
```
create table account(act_no varchar2(10), act_name varchar2(10), act_balance
number(10), act dob date);
create table account branch(act no varchar2(10), act name varchar2(10),
act_branch varchar2(10));
create table account_city(act_no varchar2(10), act_name varchar2(10), act_city
varchar2(10));
insert into account values('19DCS001','Rajesh','35000','12-JUL-2001');
insert into account values('19DCS002','Shyam','30000','05-NOV-1993');
insert into account values('19DCS003','Bimal','55000','12-DEC-1997');
insert into account values('19DCS004','Neel','46000','31-JAN-2000');
insert into account values('19DCS005','Tushar','37900','27-FEB-2002'):
insert into account values('19DCS006', 'Falguni', '35060', '01-JUL-1998');
insert into account values('19DCS007','Parimal','12070','17-SEP-2001');
insert into account values('19DCS008','Apu','17800','14-JUN-1994');
insert into account values('19DCS009', 'Sheetal', '65070', '22-AUG-1995');
insert into account values('19DCS010','Shiv','35600','07-MAY-1999');
insert into account_branch values('19DCS001','Rajesh','Manjalpur');
insert into account_branch values('19DCS002','Shyam','MG Road');
insert into account_branch values('19DCS003','Bimal','Mayapuri');
insert into account branch values('19DCS004','Neel','Borivali');
insert into account branch values('19DCS005', 'Tushar', 'Ghogha');
insert into account_branch values('19DCS006','Falguni','Powai');
insert into account_branch values('19DCS007','Parimal','Dum Dum');
insert into account_branch values('19DCS008','Apu','Hinjewadi');
```

```
insert into account_branch values('19DCS009','Sheetal','Maninagar');
insert into account branch values('19DCS010', 'Shiv', 'Gachibowli');
insert into account city values('19DCS001','Rajesh','Vadodara');
insert into account_city values('19DCS002','Shyam','Bangalore');
insert into account city values('19DCS003','Bimal','Delhi');
insert into account_city values('19DCS004','Neel','Mumbai');
insert into account_city values('19DCS005','Tushar','Bhavnagar');
insert into account city values('19DCS006', 'Falguni', 'Mumbai');
insert into account_city values('19DCS007','Parimal','Kolkata');
insert into account_city values('19DCS008','Apu','Pune');
insert into account_city values('19DCS009','Sheetal','Ahmedabad');
insert into account_city values('19DCS010','Shiv','Hyderabad');
desc account;
desc account_branch;
desc account city;
select * from account;
select * from account branch;
select * from account_city;
DECLARE
xact_no account.act_no%type;
xact_balance account.act_balance%type;
```

```
opt number(1);
deposit number(10);
withdrawal number(10);
BEGIN
xact_no:= :Enter_Account_Number;
opt:= :1Deposit_2Withdrawal_3Balance;
select act_balance into xact_balance
from account
where act_no=xact_no;
IF( opt = 1 ) THEN
deposit:= :Enter_Deposit_Amount;
update account
set act_balance=act_balance+deposit
where act_no=xact_no;
xact_balance :=xact_balance +deposit;
dbms_output.put_line('Rs. '||deposit||' has been creadited in your account');
dbms_output.put_line('Your final balance is Rs. '||xact_balance );
ELSIF( opt = 2 ) THEN
withdrawal:= :Enter_Withdrawal_Amount;
  IF ( withdrawal<=xact_balance ) THEN</pre>
```

```
update account
   set act_balance=act_balance-withdrawal
  where act_no=xact_no;
  xact_balance:=xact_balance -withdrawal;
  dbms_output.put_line('Rs. '||withdrawal||' has been debited in your account');
  dbms_output.put_line('Your final balance is Rs.'||xact_balance );
  ELSE
  dbms_output.put_line('Your withdrawal amount is greater than balance');
  dbms_output.put_line('Your transaction failed');
  dbms_output.put_line('Your final balance is Rs.'||xact_balance );
  END IF;
ELSE
dbms_output.put_line('Your balance is Rs. '||xact_balance );
END IF;
END;
```

Screenshot of the Outputs



```
dbms output.put line('Your withdrawal amount is greater than balance');
dbms output.put line('Your transaction failed');
dbms output.put line('Your final balance is Rs.'||xact balance);
END IF;
ELSE
dbms output.put line('Your balance is Rs. '||xact balance);
END IF;
END IF;
END IF;
```

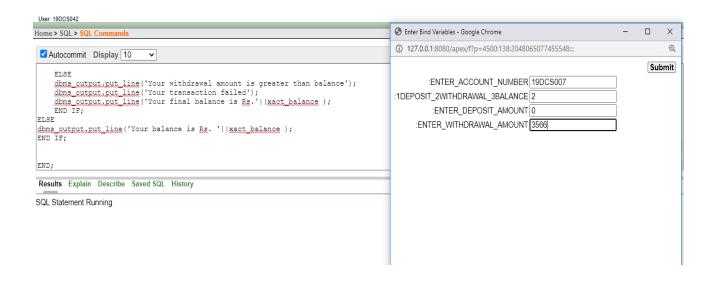
Results Explain Describe Saved SQL History

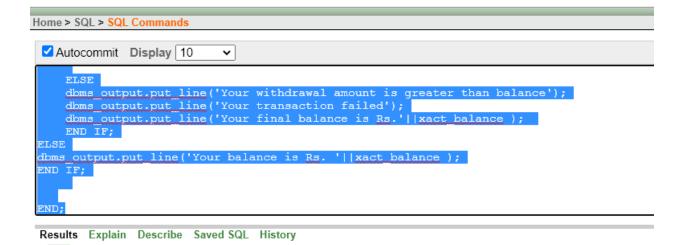
Rs. 3500 has been creadited in your account Your final balance is Rs. 58500

1 row(s) updated.

0.05 seconds

ID-19DCS016,19DCS042



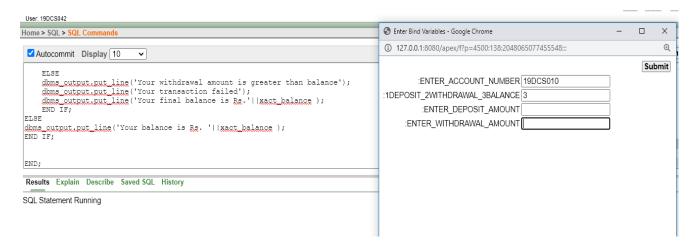


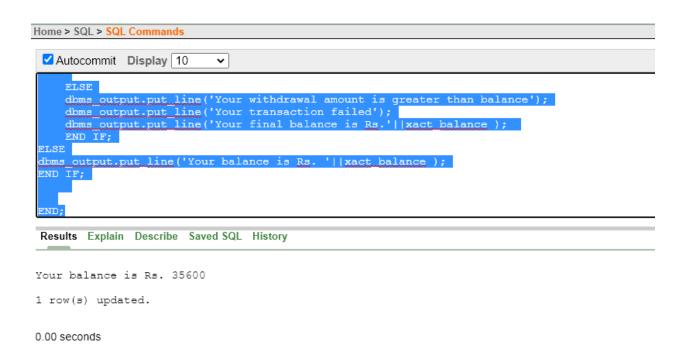
Rs. 3566 has been debited in your account Your final balance is Rs.8504

1 row(s) updated.

0.00 seconds

If you do not enter deposit amount or withdrawal amount then it will show your balance according to your account number





Limitation Of Our Project

It will ask for both Deposit and withdrawal amount at the same time but first we have asked for the number to choose - 1 for Deposit, 2 for Withdrawal and 3 for Checking the balance hence it will overcome it.

Conclusion

From this project we have learned about how to use PL/SQL and all its concepts.