

RDBMS PRACTICAL



Present By
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1. CREATE TABLES, INSERT VALUES AND PERFORM GIVEN SQL QUERIES

```
SQL> connect
Enter user-name: system
Enter password: password
Connected to:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
```

1) Create Tables According To The Following Definition :

```
SQL> create table deposit(actno varchar(5), cname varchar(18), bname varchar(18),
amount number(8,2),adate date);
```

Table created.

```
SQL> create table branch (bname varchar(18), city varchar(15));
```

Table created.

```
SQL> create table customer(cname varchar(10), city varchar(18));
```

Table created.

```
SQL> create table borrow(loanno varchar(15), cname varchar(18), bname varchar(18),
amount number(8,2));
```

Table created.

2) Insert The Data For The Above Relations:

```
SQL> insert into deposit values('BAK01','ARUN','NOWHERE',10000,'15-MAY-1995');
```

1 row created.

```
SQL> insert into deposit values('BAK02','KUMAR','NOWHERE',10500,'17-JUN-1995');
```

1 row created.

```
SQL> insert into deposit values('BAK03','BALA','VADAPALANI',11500,'18-JUN-1995');
```

1 row created.

```
SQL> insert into deposit values('BAK04','JANA','AMMAPET',12000,'20-JUL-1996');  
1 row created.
```

```
SQL> insert into deposit values('BAK05','GUNA','SEVAPET',15000,'25-AUG-1996');  
1 row created.
```

```
SQL> insert into branch values('NOWHERE','MOSCOW');  
1 row created.
```

```
SQL> insert into branch values('NOWHERE','MOSCOW');  
1 row created.
```

```
SQL> insert into branch values('VADAPALANI','SALEM');  
1 row created.
```

```
SQL> insert into branch values('AMMAPET','SALEM');  
1 row created.
```

```
SQL> insert into branch values('SEVAPET','SALEM');  
1 row created.
```

```
SQL> insert into customer values('ARUN','NOWHERE');  
1 row created.
```

```
SQL> insert into customer values('KUMAR','NOWHERE');  
1 row created.
```

```
SQL> insert into customer values('BALA','VADAPALANI');  
1 row created.
```

```
SQL> insert into customer values('JANA','AMMAPET');  
1 row created.
```

```
SQL> insert into customer values('GUNA','SEVAPET');  
1 row created.
```

```
SQL> insert into borrow values('LN001','ARUN','NOWHERE',3000);  
1 row created.
```

```
SQL> insert into borrow values('LN002','KUMAR','NOWHERE',4000);  
1 row created.
```

```
SQL> insert into borrow values('LN003','BALA','VADAPALANI',5000);  
1 row created.
```

```
SQL> insert into borrow values('LN004','JANA','AMMAPET',4500);  
1 row created.
```

```
SQL> insert into borrow values('LN005','GUNA','SEVAPET',8000);  
1 row created.
```

3) From The Above Given Tables Perform The Following Queries:

a) Describe Deposit, Branch.

```
SQL> desc deposit;
```

Name	Null?	Type
-----	-----	-----
ACTNO		VARCHAR2(5)
CNAME		VARCHAR2(18)
BNAME		VARCHAR2(18)
AMOUNT		NUMBER(8,2)
ADATE		DATE

SQL> desc branch;

Name	Null?	Type
BNAME		VARCHAR2(18)
CITY		VARCHAR2(15)

b) Describe Borrow, Customers.

SQL> desc borrow;

Name	Null?	Type
LOANNO		VARCHAR2(15)
CNAME		VARCHAR2(18)
BNAME		VARCHAR2(18)
AMOUNT		NUMBER(8,2)

SQL> desc customer;

Name	Null?	Type
CNAME		VARCHAR2(10)
CITY		VARCHAR2(18)

c) List All Data From The Table DEPOSIT.

SQL> select*from deposit;

ACTNO	CNAME	BNAME	AMOUNT	ADATE
BAK01	ARUN	NOWHERE	10000	15-MAY-95
BAK02	KUMAR	NOWHERE	10500	17-JUN-95
BAK03	BALA	VADAPALANI	11500	18-JUN-95
BAK04	JANA	AMMAPET	12000	20-JUL-96
BAK05	GUNA	SEVAPET	15000	25-AUG-96

d) List All Data From The Table BORROW.

SQL> select*from borrow;

LOANNO	CNAME	BNAME	AMOUNT
LN001	ARUN	NOWHERE	3000
LN002	KUMAR	NOWHERE	4000
LN003	BALA	VADAPALANI	5000
LN002	JANA	AMMAPET	4500
LN005	GUNA	SEVAPET	8000

e) List All Data From The Table CUSTOMERS.

SQL> select*from customer;

CNAME	CITY
ARUN	NOWHERE
KUMAR	NOWHERE
BALA	VADAPALANI
JANA	AMMAPET
GUNA	SEVAPET

f) List All Data From The Table BRANCH;

SQL> select*from branch;

BNAME	CITY
NOWHERE	MOSCOW
NOWHERE	MOSCOW
VADAPALANI	SALEM
AMMAPET	SALEM
SEVAPET	SALEM

g) Give Account No And Amount Of Depositors.

SQL> select actno,amount from deposit;

ACTNO	AMOUNT
BAK01	10000
BAK02	10500
BAK03	11500
BAK04	12000
BAK05	15000

h) Give Name Of Depositors Having Amount Greater Than 4000.

SQL> select*from deposit where amount>4000;

ACTNO	CNAME	BNAME	AMOUNT	ADATE
BAK01	ARUN	NOWHERE	10000	15-MAY-95
BAK02	KUMAR	NOWHERE	10500	17-JUN-95
BAK03	BALA	VADAPALANI	11500	18-JUN-95
BAK04	JANA	AMMAPET	12000	20-JUL-96
BAK05	GUNA	SEVAPET	15000	25-AUG-96

i) Give Name Of Customers Who Opened Account After Date '1-12-96'.

SQL> select*from deposit where adate>'01-DEC-1995';

ACTNO	CNAME	BNAME	AMOUNT	ADATE
BAK04	JANA	AMMAPET	12000	20-JUL-96
BAK05	GUNA	SEVAPET	15000	25-AUG-96

SQL> commit;

Commit complete.

2. CREATE TABLES, INSERT VALUES AND PERFORM GIVEN SQL QUERIES

SQL> connect

Enter user-name: system

Enter password: password

Connected to:

Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

CREATE TABLES:

SQL> create table Job(job_id varchar(5), job_title varchar(20), min_sal number(8,2), max_sal number(8,2));

Table created.

SQL> create table employee (emp_no varchar(5), emp_name varchar(20), emp_sal number(8,2), emp_comm number(10), dept_no number(2));

Table created.

SQL> create table deposit1 (a_no varchar(5), cname varchar(20), bname varchar(20), amount number(8,2), adate date);

Table created.

SQL> create table borrow2(loanno varchar(5), cname varchar(20), bname varchar(20), amount number(10,2));

Table created.

INSERT VALUES:

SQL> insert into Job values('BAK01','Program Developer',10000,50000);

1 row created.

SQL> insert into Job values('BAK02','Service Engineer',15000,60000);

1 row created.

```
SQL> insert into Job values('BAK03','Technician',5000,20000);
```

1 row created.

```
SQL> insert into Job values('BAK04','Driver',2000,60000);
```

1 row created.

```
SQL> insert into Job values('BAK05','Security Officer',30000,80000);
```

1 row created.

```
SQL> insert into employee values('EMP01','ARUN',25000,6374507893,10);
```

1 row created.

```
SQL> insert into employee values('EMP02','MANI',40000,8976543210,20);
```

1 row created.

```
SQL> insert into employee values('EMP03','NAZRIYA',20000,7896543210,30);
```

1 row created.

```
SQL> insert into employee values('EMP04','MARAN',50000,9886543210,2);
```

1 row created.

```
SQL> insert into employee values('EMP05','SNEHA',5000,9150959912,12);
```

1 row created.

```
SQL> insert into deposit1 values('VMK01','VIJAY','NOWHERE',50000,'01-JAN-2006');
```

1 row created.

```
SQL> insert into deposit1 values('VMK02','SRIDIVYA','NOWHERE',10000,'18-JUL-2006');
```

1 row created.

```
SQL> insert into deposit1 values('VMK03','AJITH','VADAPALANI',40000,'01-MAY-1998');
```

1 row created.

```
SQL> insert into deposit1 values('VMK04','ATHMIKA','ROYAPURAM',45000,'17-JAN-2006');
```

1 row created.

```
SQL> insert into deposit1 values('VMK05','SEEMAN','RK_NAGAR',35000,'15-AUG-2006');
```

1 row created.

```
SQL> insert into borrow2 values('SHV01','HARI','NOWHERE',15000);
```

1 row created.

```
SQL> insert into borrow2 values('SHV02','YASHIKA','VIRUGAMBAKKAM',200000);
```

1 row created.

```
SQL> insert into borrow2 values('SHV03','MAHAT','PORUR',200000);
```

1 row created.

```
SQL> insert into borrow2 values('SHV04','VINAYAK','TAMBARAM',5000);
```

1 row created.

```
SQL> insert into borrow2 values('SHV05','SEMBA','SITHANOOR',1000);
```

1 row created.

A) ALL DATA FROM EMPLOYEE JOB AND DEPOSIT1:

```
SQL> select *from employee;
```

EMP_NO	EMP_NAME	EMP_SAL	EMP_COMM	DEPT_NO
EMP01	ARUN	25000	6374507893	10
EMP02	MANI	40000	8976543210	20
EMP03	NAZRIYA	20000	7896543210	30
EMP04	MARAN	50000	9886543210	2
EMP05	SNEHA	5000	9150959912	12

SQL> select *from Job;

JOB_ID	JOB_TITLE	MIN_SAL	MAX_SAL
BAK01	Program Developer	10000	50000
BAK02	Service Engineer	15000	60000
BAK03	Technician	5000	20000
BAK04	Driver	2000	60000
BAK05	Security Officer	30000	80000

SQL> select*from deposit1;

A_NO	CNAME	BNAME	AMOUNT	ADATE
VMK01	VIJAY	NOWHERE	50000	01-JAN-06
VMK02	SRIDIVYA	NOWHERE	10000	18-JUL-06
VMK03	AJITH	VADAPALANI	40000	01-MAY-98
VMK04	ATHMIKA	ROYAPURAM	45000	17-JAN-06
VMK05	SEEMAN	RK_NAGAR	35000	15-AUG-06

B) GIVE DETAILS OF ACCOUNT NO AND DEPOSITED RUPEES OF CUSTOMERS HAVING ACCOUNT OPENED BETWEEN DATES 01-01-2006 AND 25-07-2006

SQL> select a_no, amount from deposit1 where adate between '01-JAN-2006' and '25-JUL-2006';

A_NO	AMOUNT
VMK01	50000
VMK02	10000
VMK04	45000

C) DISPLAY ALL JOBS WITH MINIMUM SALARY IS GREATER THAN 4000.

SQL> select JOB_TITLE from Job where min_sal>4000;

JOB_TITLE

Program Developer
Service Engineer
Technician
Security Officer

D) DISPLAY NAME AND SALARY OF EMPLOYEE WHOSE DEPARTMENT NO IS 20. GIVE ALIAS NAME TO NAME OF EMPLOYEE

SQL> select emp_name as Name, emp_sal as Salary from employee where dept_no=20;

NAME SALARY
----- -----
MANI 40000

E) DISPLAY EMPLOYEE NO, NAME AND DEPARTMENT DETAILS OF THOSE EMPLOYEE WHOSE DEPARTMENT LIES IN (10,20)

SQL> select emp_no,emp_name, dept_no from employee where dept_no in (10,20);

EMP_NO EMP_NAME DEPT_NO
----- ----- -----
EMP01 ARUN 10
EMP02 MANI 20

SQL> commit;

Commit complete.

3. CREATE TABLES, INSERT VALUES AND PERFORM GIVEN SQL QUERIES

```
SQL> connect  
Enter user-name: system  
Enter password: password  
Connected to:  
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
```

CREATE TABLES:

```
SQL> create table employee1 (emp_no varchar(6), emp_name varchar(20), emp_sal number(8,2), emp_comm number(8,2), dept_no number(2));
```

Table created.

INSERT VALUES:

```
SQL> insert into employee1 values('VMK01','Amar',50000,2500,20);
```

1 row created.

```
SQL> insert into employee1 values('VMK02','Amala',30000,1500,10);
```

1 row created.

```
SQL> insert into employee1 values('VMK03','Anitha',40000,3000,10);
```

1 row created.

```
SQL> insert into employee1 values('VMK04','Anish',45000,3500,20);
```

1 row created.

```
SQL> insert into employee1 values('VMK05','V_mani',60000,4000,20);
```

1 row created.

A) DISPLAY ALL EMPLOYEE WHOSE NAME START WITH 'A' AND THIRD CHARACTER IS 'A'.

```
SQL> select emp_name from employee1 where emp_name like 'A_a%';
```

```
EMP_NAME  
-----  
Amar  
Amala
```

B) DISPLAY NAME, NUMBER AND SALARY OF THOSE EMPLOYEES WHOSE NAME IS 5 CHARACTERS LONG AND FIRST THREE CHARACTERS ARE 'Ani'

```
SQL> select emp_name, emp_no, emp_sal from employee1 where emp_name like 'Ani___';
```

EMP_NAME	EMP_NO	EMP_SAL
Anish	VMK04	45000

C) DISPLAY THE NON-NULL VALUES OF EMPLOYEES AND ALSO EMPLOYEE NAME SECOND CHARACTER SHOULD BE 'N' AND STRING SHOULD BE 5 CHARACTER LONG.

```
SQL> select emp_name from employee1 where emp_comm is not null and emp_name like '_n___';
```

```
EMP_NAME  
-----  
Anish
```

D) DISPLAY THE NULL VALEUS OF EMPLOYEE AND ALSO EMPLOYEE NAME'S THIRD CHARACTER SHOLD BE'A'.

```
SQL> select emp_name from employee1 where emp_comm is not null and emp_name like '__a%';
```

```
EMP_NAME  
-----  
Amar  
Amala
```

4. DATA MANIPULATION COMMANDS AND AGGREGATE FUNCTIONS

E) WHAT WILL BE OUTPUT IF YOU ARE GIVING LIKE PREDICATE AS '%_%' ESCAPE '\'

```
SQL> select emp_name from employee1 where emp_name like '%\_%' escape '\';
```

```
EMP_NAME
```

```
-----  
V_mani
```

```
SQL> commit;
```

```
Commit complete.
```

```
SQL>
```

```
SQL> connect  
Enter user-name: system  
Enter password: password  
Connected.
```

CREATE TABLES:

```
SQL> create table deposit3(actno varchar(6), cname varchar(18), bname varchar(18),  
amount number(8,2), adate date);
```

```
Table created.
```

```
SQL> create table employee3(empno number(5), empname varchar(20), empsal num-  
ber(8,2), empcomm number(8,2), deptno number(8));
```

```
Table created.
```

```
SQL> create table borrow3 (loanno varchar(15), cname varchar(18), bname varchar(18),  
amount number(8,2));
```

```
Table created.
```

```
SQL> create table customer3 (cname varchar(20), city varchar(10));
```

```
Table created.
```

INSERT VALUES:

```
SQL> insert into deposit3 values('VMK01','VIJAY','NOWHERE',50000,'01-JAN-2006');
```

```
1 row created.
```

```
SQL> insert into deposit3 values('VMK02','SRIDIVYA','NOWHERE',10000,'18-JUL-2006');
```

```
1 row created.
```

```
SQL> insert into deposit3 values('VMK03','AJITH','VADAPALANI',40000,'01-MAY-1982');
```

```
1 row created.
```

```
SQL> insert into deposit3 values('VMK04','ATHMIKA','ROYAPURAM',45000,'17-JAN-2006');
1 row created.

SQL> insert into deposit3 values('VMK05','SEEMAN','RK_NAGAR',35000,'15-AUG-2006');
1 row created.

SQL> insert into borrow3 values('IN001','ARUN','NOWHERE',3000);
1 row created.

SQL> insert into borrow3 values('IN002','KUMAR','NOWHERE',4000);
1 row created.

SQL> insert into borrow3 values('IN003','BALA','VADAPALANI',5000);
1 row created.

SQL> insert into borrow3 values('IN004','JANA','AMMAPET',4500);
1 row created.

SQL> insert into borrow3 values('IN005','GUNA','SEVAPET',8000);
1 row created.

SQL> insert into employee3 values(101,'HARI',10000,2000,10);
1 row created.

SQL> insert into employee3 values(102,'VIGNESH',20000,1000,20);
1 row created.

SQL> insert into employee3 values(103,'PREM',15000,200,10);
1 row created.

SQL> insert into employee3 values(104,'RAM',17000,1000,20);
1 row created.
```

```
SQL> insert into employee3 values(105,'SAM',18000,2500,10);
1 row created.

SQL> insert into customer3 values('Mohanraj','NOWHERE');
1 row created.

SQL> insert into customer3 values('Rocky','NOWHERE');
1 row created.

SQL> insert into customer3 values('Ramu','VADAPALANI');
1 row created.

SQL> insert into customer3 values('Gokul','AMMAPET');
1 row created.

SQL> insert into customer3 values('Pradeep','SEVAPET');
1 row created.

A) LIST TOTAL AMOUNT FROM DEPOSIT:
SQL> select sum(amount) from deposit3;
SUM(AMOUNT)
-----
180000

B) LIST TOTAL LOAN FROM A PARTICULAR BRANCH:
SQL> select sum(amount) from borrow3 where bname='NOWHERE';
SUM(AMOUNT)
-----
7000
```

C) COUNT TOTAL NUMBER OF CUSTOMERS

```
SQL> select count(cname) from deposit3;
```

```
COUNT(CNAME)
-----
5
```

D) COUNT TOTAL NUMBER OF CUSTOMER'S CITIES

```
SQL> select count(distinct city) from customer3;
```

```
COUNT(DISTINCTCITY)
-----
4
```

E) CREATE TABLE SUPPLIER FROM EMPLOYEE WITH ALL THE COLUMNS

```
SQL> create table supplier as select *from employee3;
```

Table created.

F) CREATE TABLE SUP1 FROM EMPLOYEE WITH FIRST TOW COLUMNS

```
SQL> create table supl as select empno,empname from employee3;
```

Table created.

G) DELETE ALL THE ROWS FROM SUP1

```
SQL> drop table supl;
```

Table dropped.

H) DELETE THE DETAIL OF SUPPLIER WHOSE SUP_NO IS 103

```
SQL> alter table supplier rename column empno to sup_no;
```

Table altered.

```
SQL> delete from supplier where sup_no=103;
```

1 row deleted.

**I) UPDATE THE VALUE DET_NO TO 10 WHERE SECOND CHARACTER OF
EMP NAME IS 'M'**

```
SQL> update employee3 set deptno=10 where empname like'_m%';
```

0 rows updated.

```
SQL> commit;
```

Commit complete.

```
SQL>
```

5. BANK WITHDRAWAL PROGRAM USING PL/SQL CODE

```
SQL> connect
Enter user-name: system
Enter password: password
Connected.
```

CREATE TABLES:

```
SQL> create table accounts(account_id varchar(5), name varchar(20), bal number(7,3));
```

Table created.

INSERT VALUES:

```
SQL> insert into accounts values('ACC01','RAJE',5000);
```

1 row created.

```
SQL> insert into accounts values('ACC02','RAJA',250);
```

1 row created.

PL/SQL CODE:

```
SQL> declare
 2 acct_balance number(7,2);
 3 acct_no varchar(6);
 4 debit_amt number(7,2):=2000;
 5 min_bal constant number(7,2):=500;
 6 begin
 7 acct_no:='&acct_no';
 8 select bal into acct_balance from accounts where account_id=acct_no;
 9 acct_balance:=acct_balance-debit_amt;
10 if acct_balance>=min_bal then
11 update accounts set bal=bal-debit_amt where account_id =acct_no;
12 end if;
13 end;
14 /
```

SAMPLE INPUT AND OUTPUT:

```
Enter value for acct_no: ACC01
old 7: acct_no:='&acct_no';
new 7: acct_no:='ACC01';
```

PL/SQL procedure successfully completed.

```
SQL> select *from accounts;
```

ACCOU	NAME	BAL
ACC01	RAJE	3000
ACC02	RAJA	250

```
SQL> commit;
```

Commit complete.

6. AREA OF CIRCLE

```
SQL> connect  
Enter user-name: system  
Enter password: password  
Connected.
```

CREATE TABLES:

```
SQL> create table areas(radius number(5), area number(14,2));
```

Table created.

```
SQL> declare  
2 pi constant number(4,2):=3.14;  
3 radius number(5);  
4 area number(14,2);  
5 begin  
6 radius:=3;  
7 while radius <=7  
8 loop  
9 area:=pi*power(radius,2);  
10 insert into areas values(radius,area);  
11 radius:=radius+1;  
12 end loop;  
13 end;  
14 /
```

PL/SQL procedure successfully completed.

SAMPLE INPUT AND OUTPUT:

```
SQL> select *from areas;
```

RADIUS	AREA
3	28.26
4	50.24
5	78.5
6	113.04
7	153.86

```
SQL> commit;
```

Commit complete.

7. REVERSING A NUMBER

SOURCE CODE:

```
SQL> declare  
2 n number;  
3 i number;  
4 rev number:=0;  
5 r number;  
6 begin  
7 n:=&n;  
8 while n>0  
9 loop  
10 r:=mod(n,10);  
11 rev:=(rev*10)+r;  
12 n:=trunc(n/10);  
13 end loop;  
14 dbms_output.put_line('Reverse is: '||rev);  
15 end;  
16 /
```

SAMPLE INPUT AND OUTPUT:

```
Enter value for n: 5678  
old 7: n:=&n;  
new 7: n:=5678;  
Reverse is: 8765
```

PL/SQL procedure successfully completed.

```
SQL> commit;
```

Commit complete.

8. AUDIT SYSTEM

Enter user-name: system
Enter password: password
Connected to:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

CREATE TABLES:

```
SQL> create table client_master (client_no varchar(6), name varchar(20), address  
varchar(30), Bal_due number(7,2));
```

Table created.

INSERT VALUES:

```
SQL> insert into client_master values('&client_masterno','&name','&address','&Bal_due');  
Enter value for client_masterno: c101  
Enter value for name: rajeswari  
Enter value for address: salem  
Enter value for bal_due: 5600  
old 1: insert into client_master values('&client_masterno','&name','&address','&Bal_due')  
new 1: insert into client_master values('c101','rajeswari','salem','5600')
```

1 row created.

```
SQL>/  
Enter value for client_masterno: c102  
Enter value for name: revathy  
Enter value for address: salem  
Enter value for bal_due: 6200  
old 1: insert into client_master values('&client_masterno','&name','&address','&Bal_  
due')  
new 1: insert into client_master values('c102','revathy','salem','6200')
```

1 row created.

```
SQL>/  
Enter value for client_masterno: c1103  
Enter value for name: xxx  
Enter value for address: erode  
Enter value for bal_due: 4000  
old 1: insert into client_master values('&client_masterno','&name','&address','&Bal_  
due')  
new 1: insert into client_master values('c1103','xxx','erode','4000')  
  
1 row created.
```

TRIGGER CODE:

```
SQL> set serveroutput on;  
SQL> create trigger Audit_trail  
2 after update or delete on client_master  
3 for each row  
4 declare  
5 Oper varchar(8);  
6 sys date;  
7 us varchar(10);  
8 client_no varchar(6);  
9 client_name varchar(20);  
10 Bal_due number(10,2);  
11 begin  
12 if updating then  
13 Oper:='Update';  
14 end if;  
15 if deleting then  
16 Oper:='Delete';  
17 end if;  
18 client_no:=:OLD.client_no;  
19 client_name:=:OLD.name;  
20 Bal_due:=:OLD.Bal_due;  
21 select current_table into sys from dual;  
22 select user into us from dual;  
23 insert into Audit_client values(client_no, client_name,Bal_due,Oper,sys,us);  
24 end;  
25 /
```

Trigger created.

```
SQL> select*from Audit_client;  
No rows selected.
```

```
SQL> update client_master set bal_due=2000 where client_no='c102';  
1 row updated.
```

```
SQL> select *from client_master;
```

CLIENT_MASTER	CLIENT_NAME	BAL_DUE	OPER	SYS	US
c101	revathy	6200	Update	24-APR-2022	Mohan

```
SQL> delete from client_master where name like 'R%';  
1 row deleted.
```

```
SQL>select *from audit_client;
```

CLIENT_MASTER	CLIENT_NAME	BAL_DUE	OPER	SYS	US
c101	Raji	5600	Delete	24-APR-2022	Mohan
c102	revathy	6200	Update	11-JAN-2019	Mohan

```
SQL> commit;
```

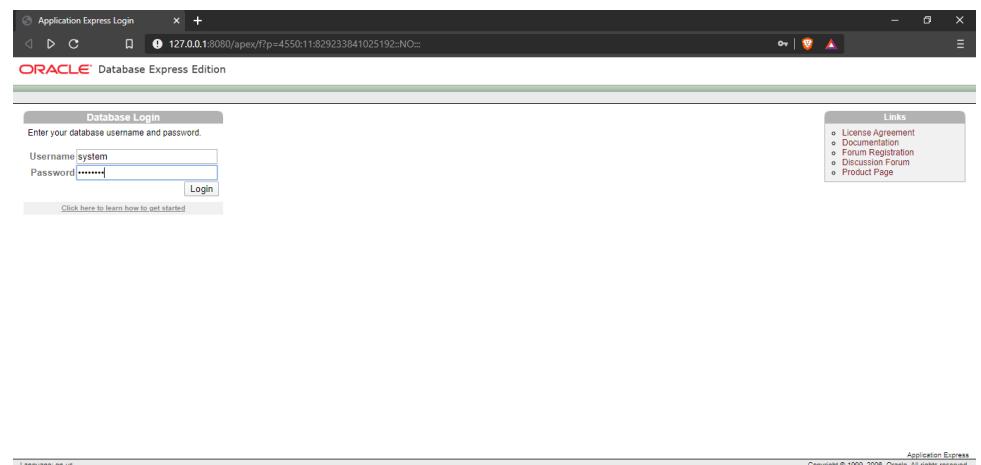
```
Commit complete.
```

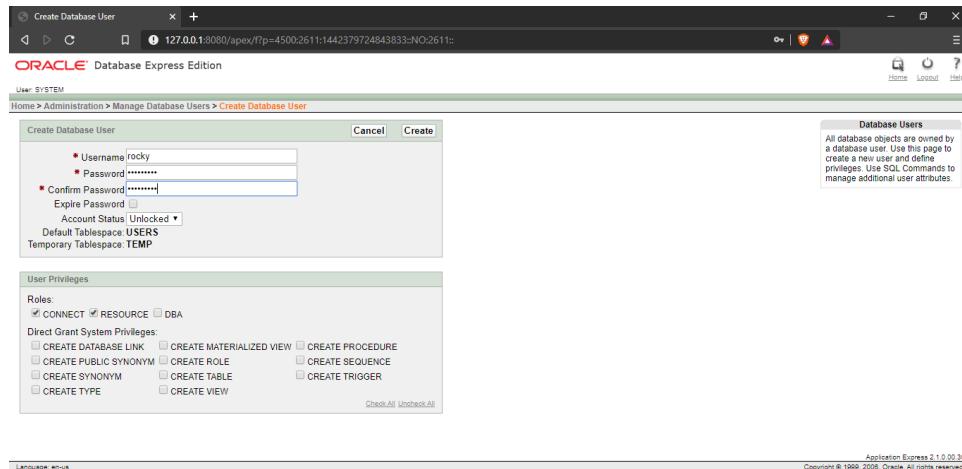
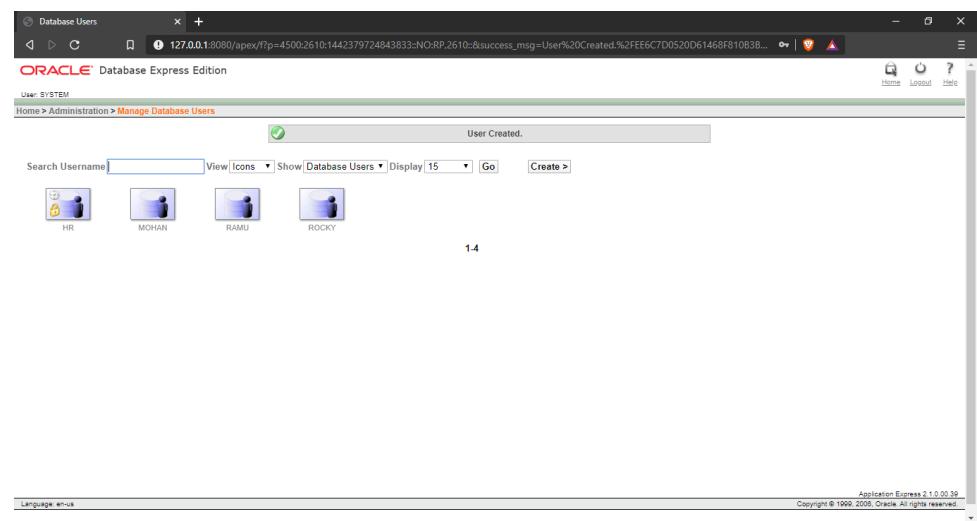
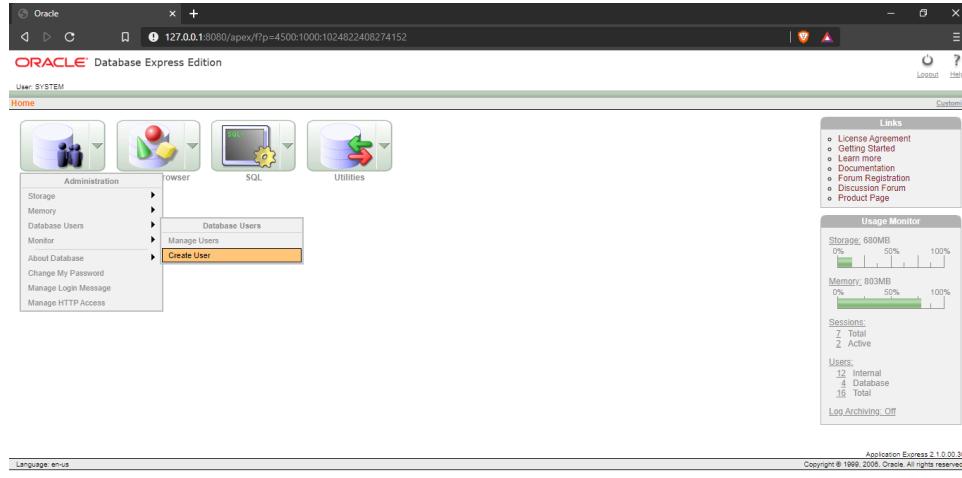
9. BANK DATABASE APPLICATION

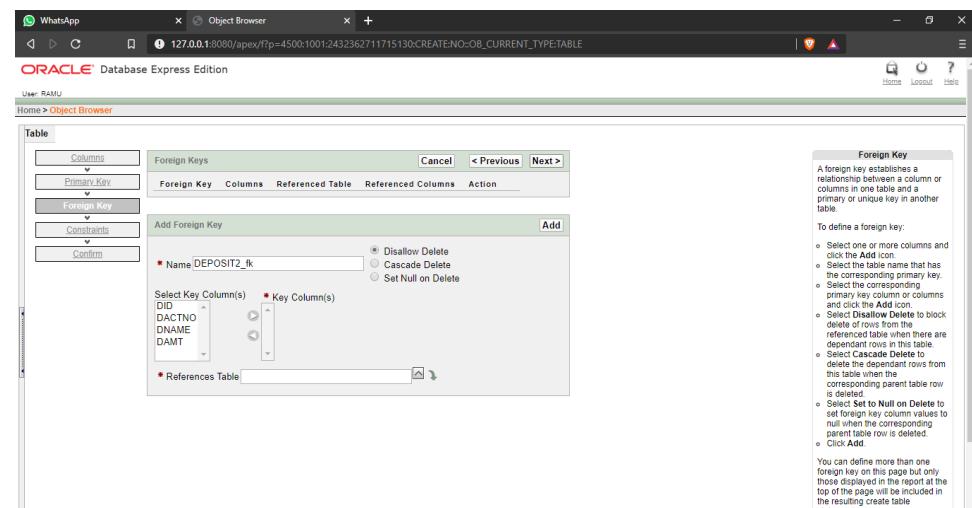
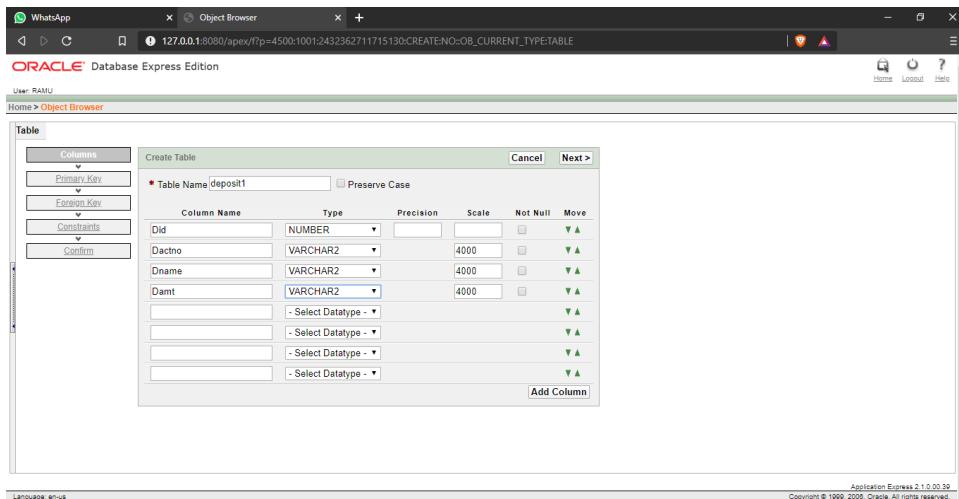
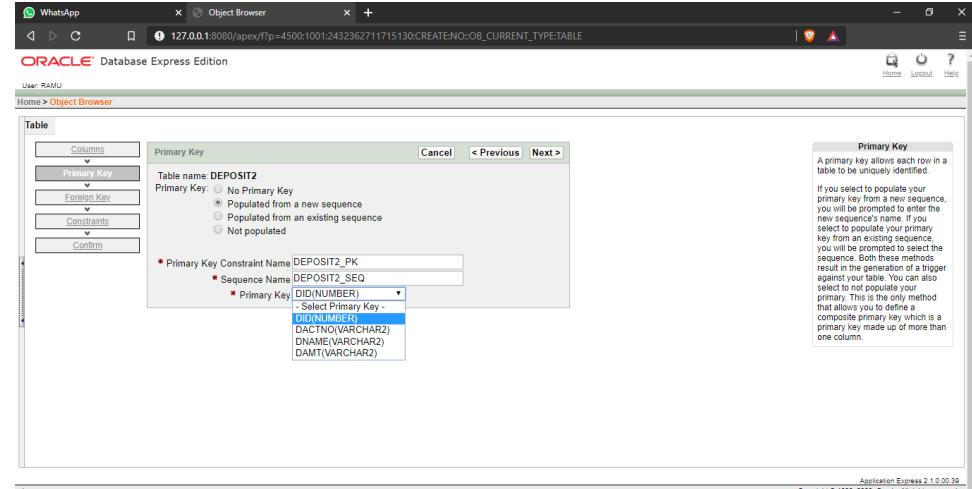
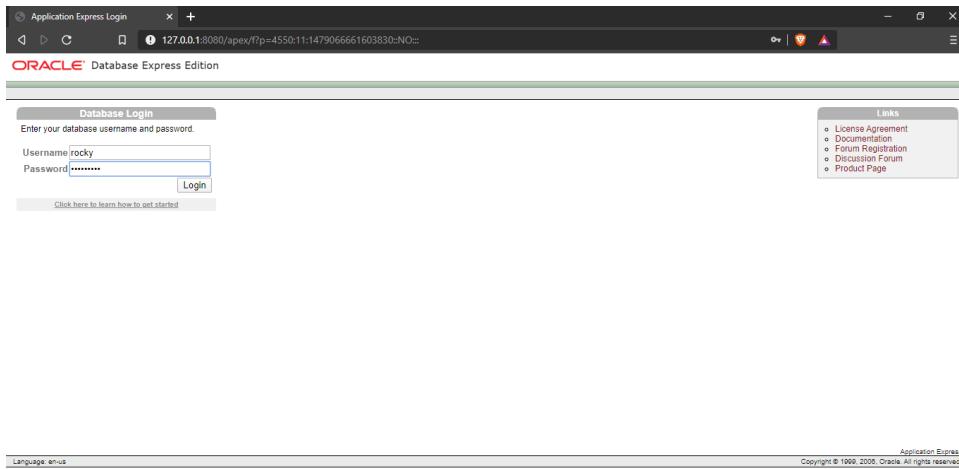
Enter user-name: system
Enter password: password
Connected to:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

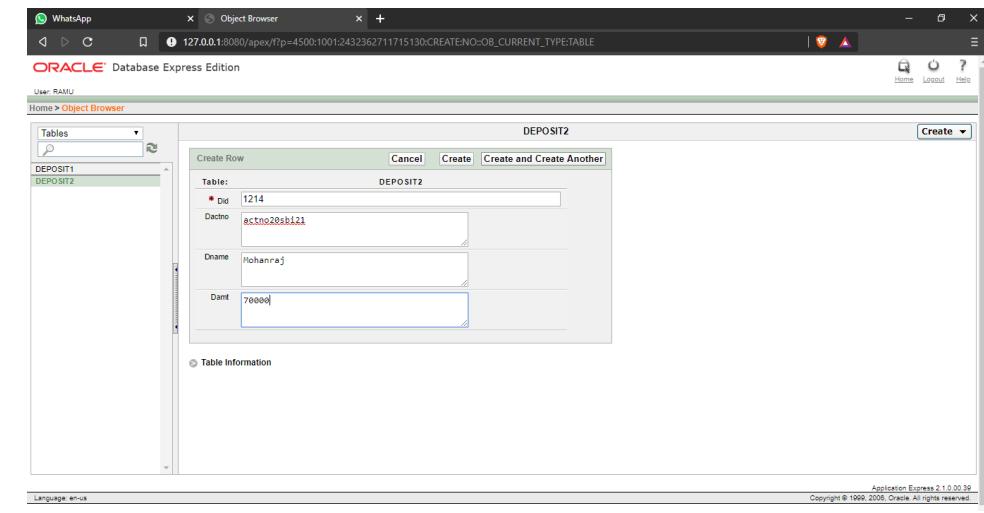
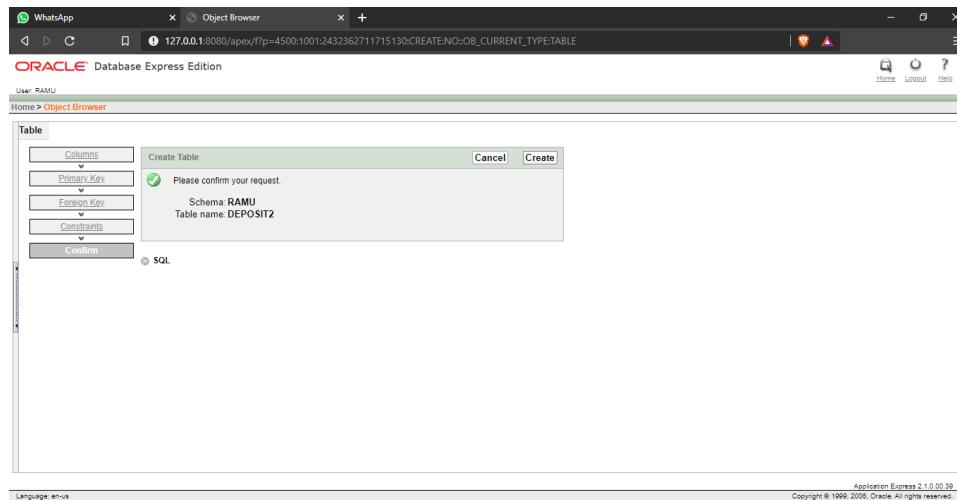
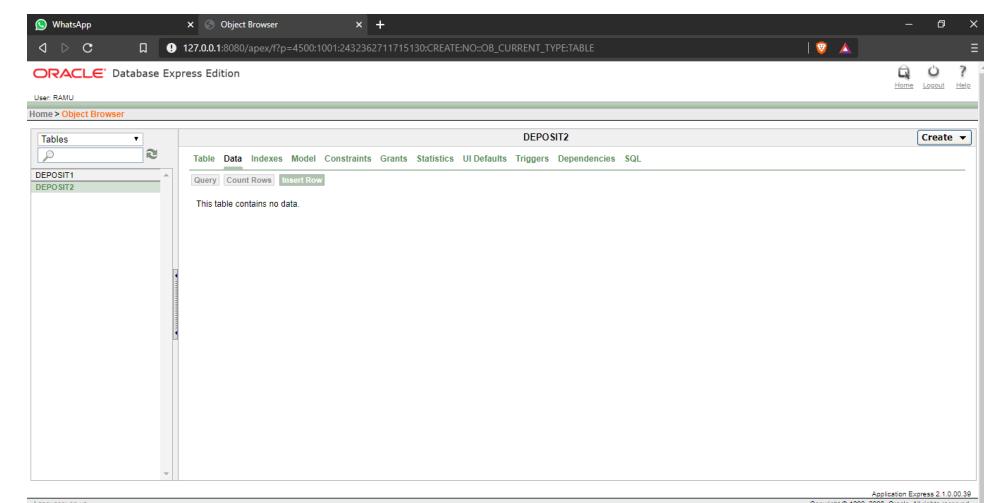
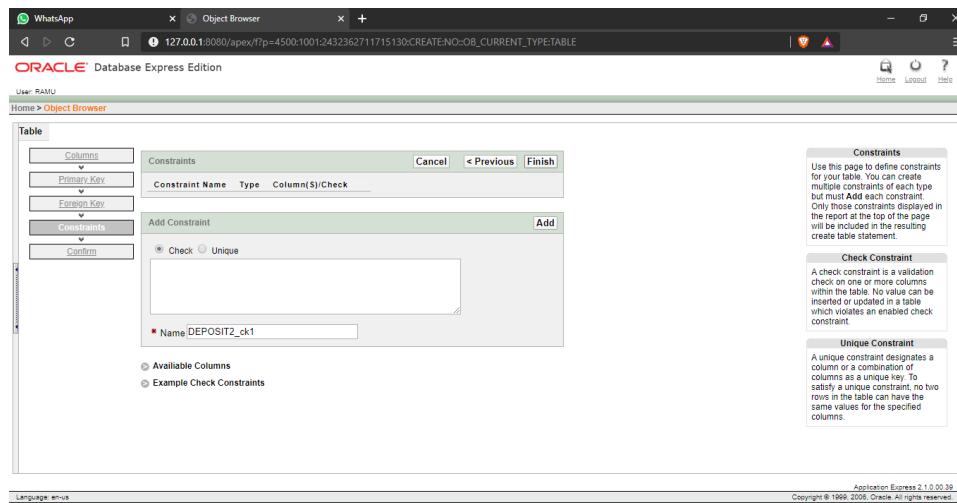
CODING:

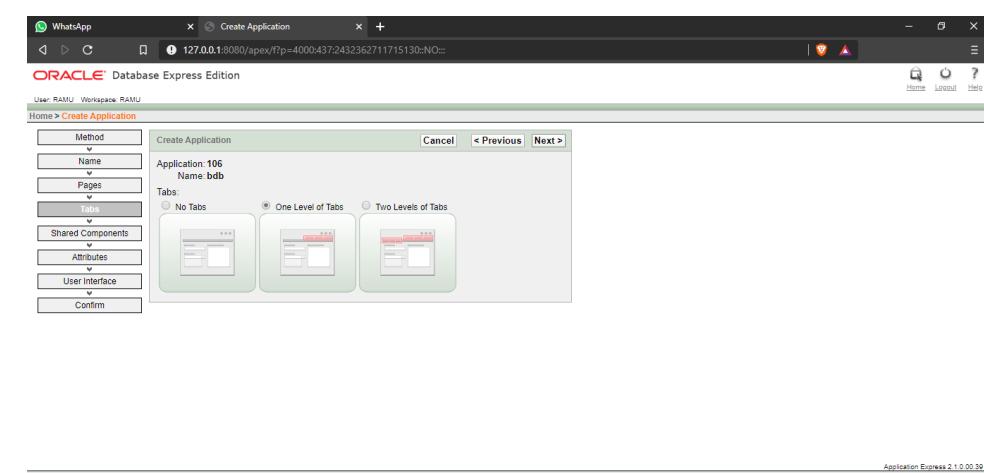
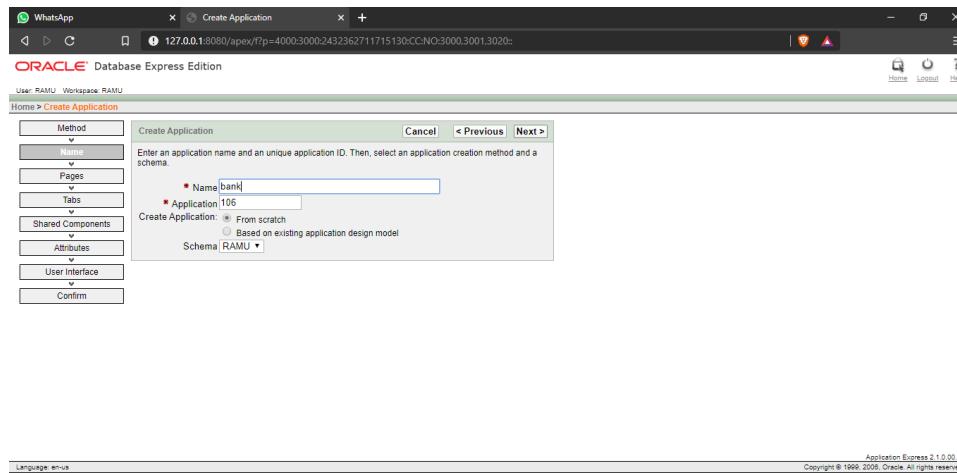
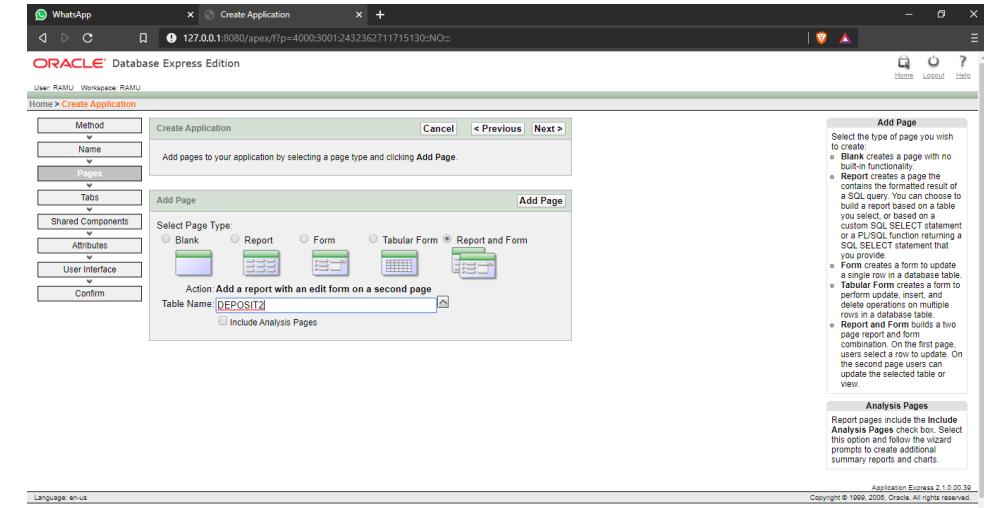
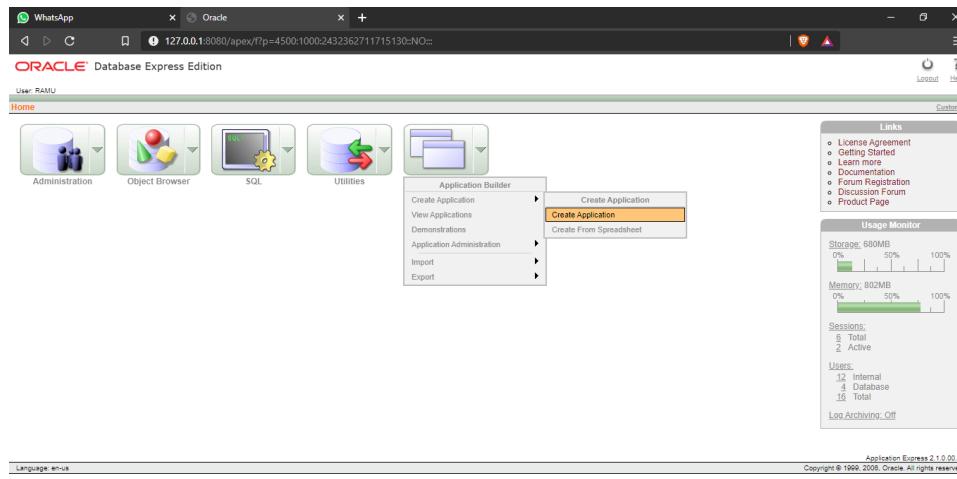
```
declare  
d deposit2.damt%type;  
cursor c1 is  
select damt from deposit2 where dactno=:p2_dactno;  
begin  
open c1;  
fetch c1 into d;  
d:=d+2000;  
update deposit2 set damt=d where dactno=:p2_dactno;  
close c1;  
end;
```

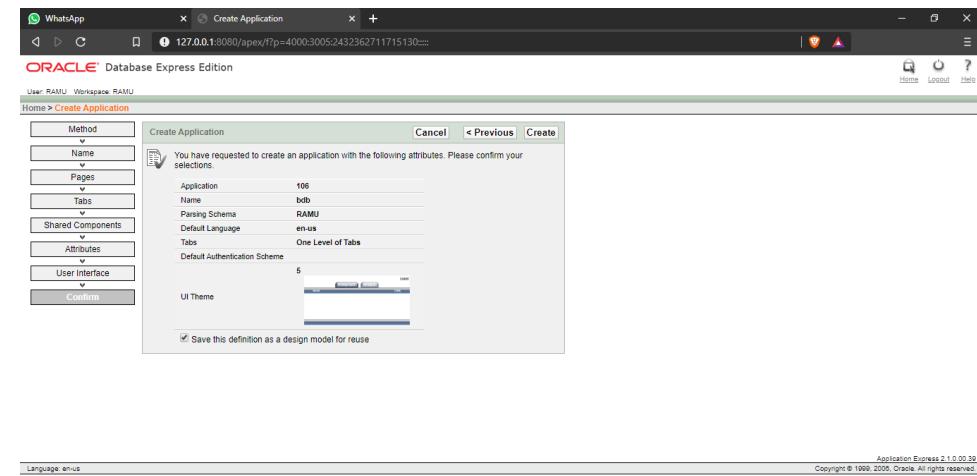
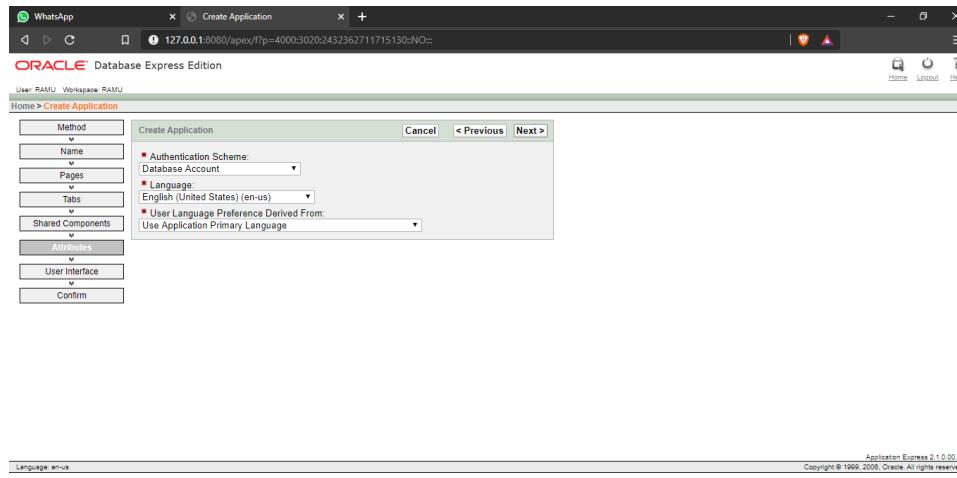
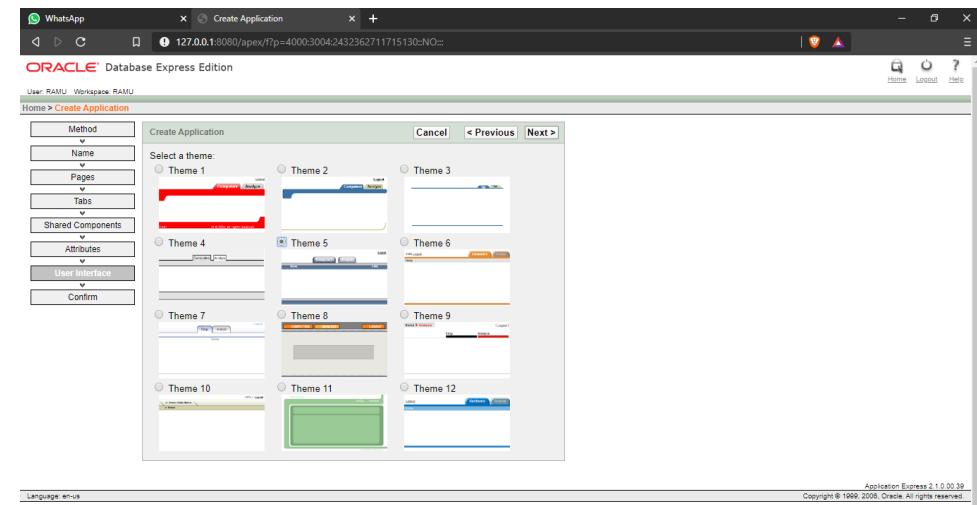
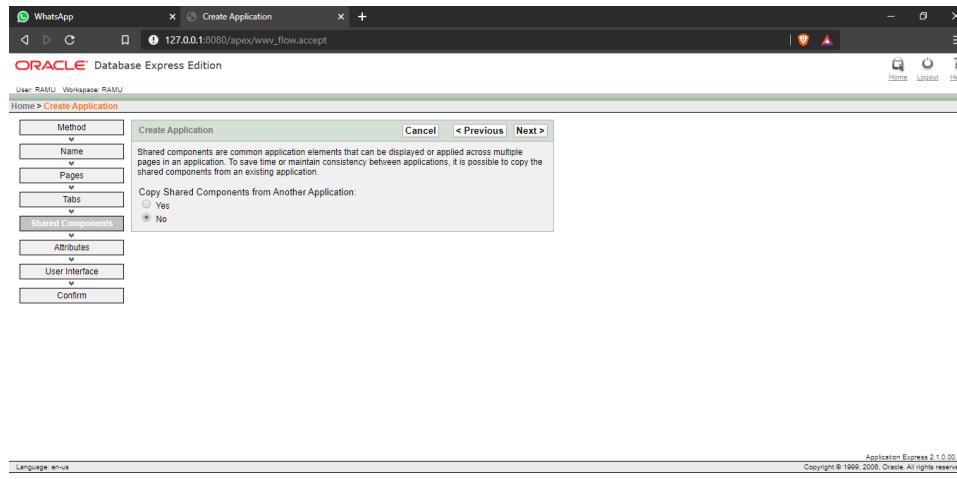


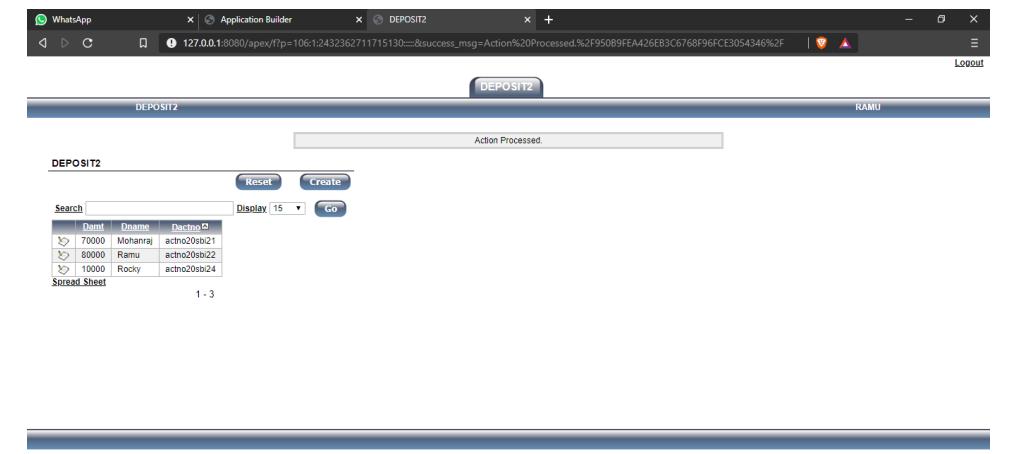
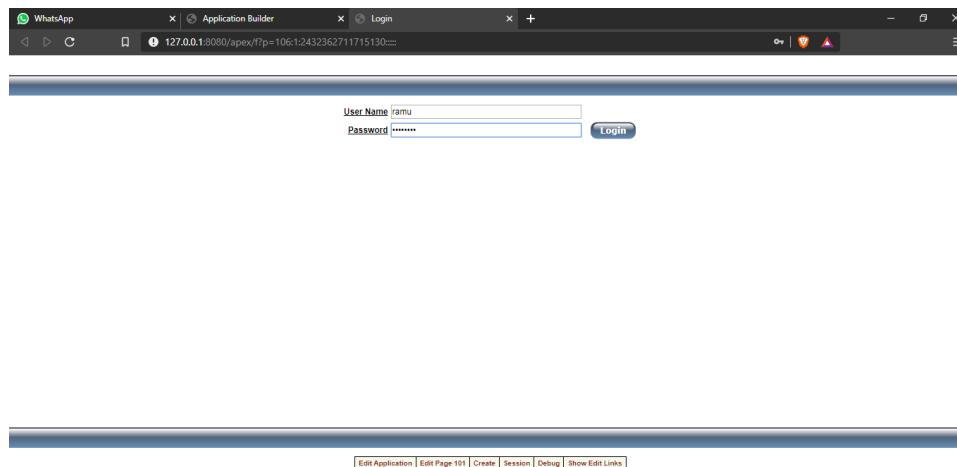
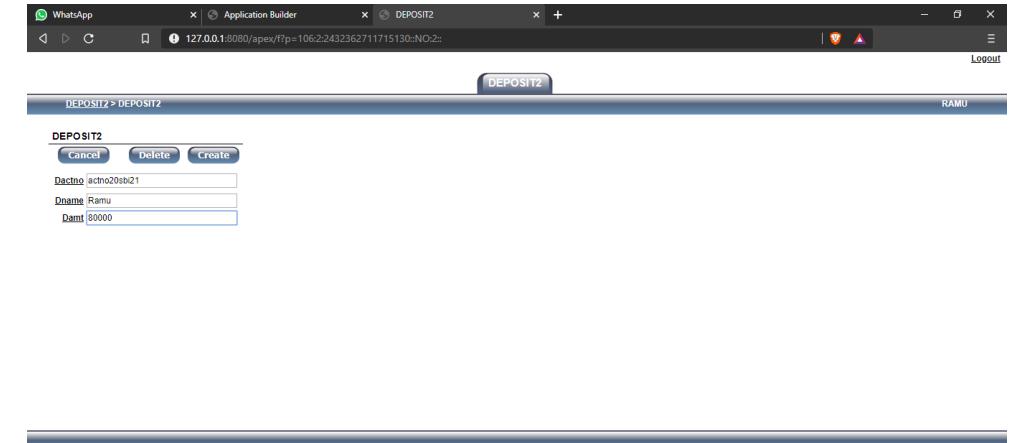
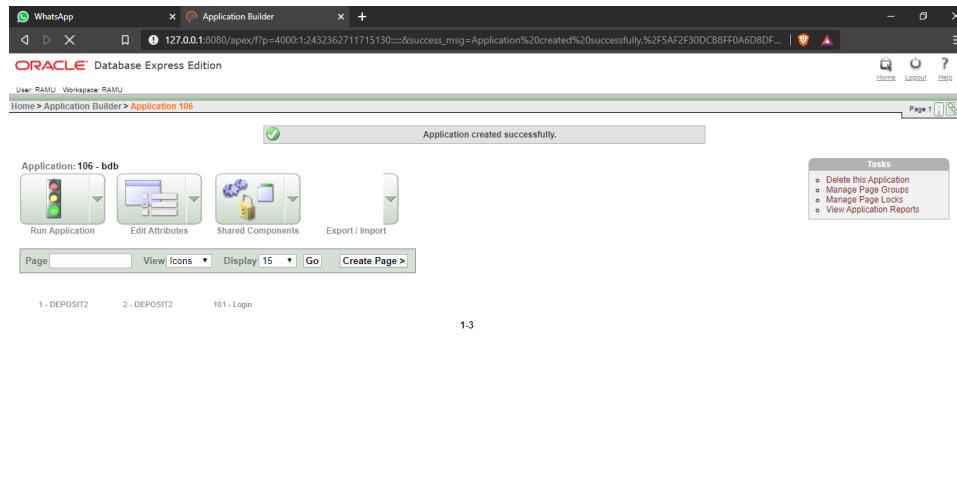












ORACLE Database Express Edition

User RAMU Workspace RAMU

Home > Application Builder > Application 106 > Page Definition

Page 1

Name: DEPOSIT2 Last Updated: 3 minutes ago

Page Rendering

Regions

- Display Point Page Template Body (1)
 - Report: DEPOSIT2 (1)
 - Display Point Region Position 01
 - Breadcrumbs: Breadcrumbs (1)

Buttons

- Region: DEPOSIT2
 - 10: CREATE (Redirect)
 - 10: RESET
 - Item: P1_GO

Items

- Region: DEPOSIT2
 - 10: REPORT_SEARCH TextField (always submits page when Enter pressed)
 - 20: P1_ROWS Select List
 - 30: P1_GO button

Computations

Processes

Page Processing

Computations

Shared Components

Tabs

- Tab Set: T1
 - DEPOSIT2

Validations

Processes

- After Submit
 - 10: Reset Pagination
 - 20: Reset report search

Lists of Values

- Report Row Per Page

Breadcrumbs

- Breadcrumb

Lists

Theme

- 5 Opal

Templates

- Page: One Level Tabs
- Region: Breadcrumbs Region
- Region: Reports Region
- Label: Optional Label with Help
- Image
- Button: Button
- Breadcrumbs: Breadcrumbs Menu
- Report: Standard, Alternating Rows Colors

Security

Navigation Bar

- Logout

ORACLE Database Express Edition

User RAMU Workspace RAMU

Home > Application Builder > Application 106 > Page Definition

Page 1

Name: DEPOSIT2 Last Updated: RAMU, 0 seconds ago

Page Rendering

Regions

- Display Point Page Template Body (1)
 - Report: DEPOSIT2 (1)
 - Display Point Region Position 01
 - Breadcrumbs: Breadcrumbs (1)

Buttons

- Region: DEPOSIT2
 - 10: RESET
 - 10: CREATE (Redirect)
 - Item: P1_GO

Items

- Region: DEPOSIT2
 - 10: REPORT_SEARCH TextField (always submits page when Enter pressed)
 - 20: P1_ROWS Select List
 - 30: P1_GO button

Computations

Processes

Page Processing

Computations

Shared Components

Tabs

- Tab Set: T1
 - DEPOSIT2

Validations

Processes

- After Submit
 - 10: Reset Pagination
 - 20: Reset report search

Lists of Values

- Report Row Per Page

Breadcrumbs

- Breadcrumb

Lists

Theme

- 5 Opal

Templates

- Page: One Level Tabs
- Region: Breadcrumbs Region
- Region: Reports Region
- Label: Optional Label with Help
- Image
- Button: Button
- Breadcrumbs: Breadcrumbs Menu
- Report: Standard, Alternating Rows Colors

Security

ORACLE Database Express Edition

User RAMU Workspace RAMU

Home > Application Builder > Application 106 > Page Definition > Create Button

Create Button

Cancel < Previous Next >

Page 1 - DEPOSIT Region: DEPOSIT2

Button Name: DEPOSIT
 Label: Deposit
 Cancel
 Next
 Previous
 Apply
 Submit
 Delete
 Finish
 Create

Button Type:
 HTML Button
 Image
 Template Driven
 Button is Reset

Action:
 Submit Page and Redirect to URL
 Redirect to URL without submitting page

ORACLE Database Express Edition

User RAMU Workspace RAMU

Home > Application Builder > Application 106 > Page Definition > Create Button

Create Button

Cancel < Previous Next >

Page 1 - DEPOSIT Region: DEPOSIT2

Button Name: WITHDRAW
 Label: Withdraw
 Cancel
 Next
 Previous
 Apply
 Submit
 Delete
 Finish
 Create

Button Type:
 HTML Button
 Image
 Template Driven
 Button is Reset

Action:
 Submit Page and Redirect to URL
 Redirect to URL without submitting page

Application Express 2.1.0.20.39

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Type here to search

Language: en-US

ENG US 6:01 AM 4/24/2022

Application Express 2.1.0.20.39

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Type here to search

Language: en-US

ENG US 6:01 AM 4/24/2022

WhatsApp Application Builder Page Definition (DEPOSIT2)

User: RAMU Workspace: RAMU

Home > Application Builder > Application 106 > Page Definition

Page 1 View Definition Go Create >

Button created.

Name: DEPOSIT2 Last Updated: RAMU, 0 seconds ago

Page Rendering

- Regions
- Buttons
- Items
- Computations
- Processes

Page Processing

- Computations
- Validations
- Processes
- Lists of Values
- Breadcrumbs
- Lists
- Theme
- Templates
- Security

Shared Components

WhatsApp Application Builder Edit Page Process

Page: DEPOSIT2

Name: WITHDRAW Type: PL/SQL anonymous block

Process Point

- Sequence 40
- Process Point: On Submit - After Computations and Validations
- Run Process: Once Per Page Visit (default)

Source

```
Process [Download Source]
declare
d deposit2.damt%type;
cursor cl is
select damt from deposit2 where dactno=:p2_dactno;
begin
open cl;
fetch cl into d;
d:=d+3000;
update deposit2 set damt=d where dactno=:p2_dactno;
close cl;
end;
```

Messages

Process Error Message

Process Success Message

WhatsApp Application Builder Edit Page Process

Page: DEPOSIT2

Name: DEPOSIT Type: PL/SQL anonymous block

Process Point

- Sequence 30
- Process Point: On Submit - After Computations and Validations
- Run Process: Once Per Page Visit (default)

Source

```
Process [Download Source]
declare
d deposit2.damt%type;
cursor cl is
select damt from deposit2 where dactno=:p2_dactno;
begin
open cl;
fetch cl into d;
d:=d-3000;
update deposit2 set damt=d where dactno=:p2_dactno;
close cl;
end;
```

Messages

Process Error Message

WhatsApp Application Builder Edit Page Process

Page: DEPOSIT2

Name: DEPOSIT Type: PL/SQL anonymous block

Expression 1

Expression 2

When Button Pressed (Process After Submit When this Button is Pressed)

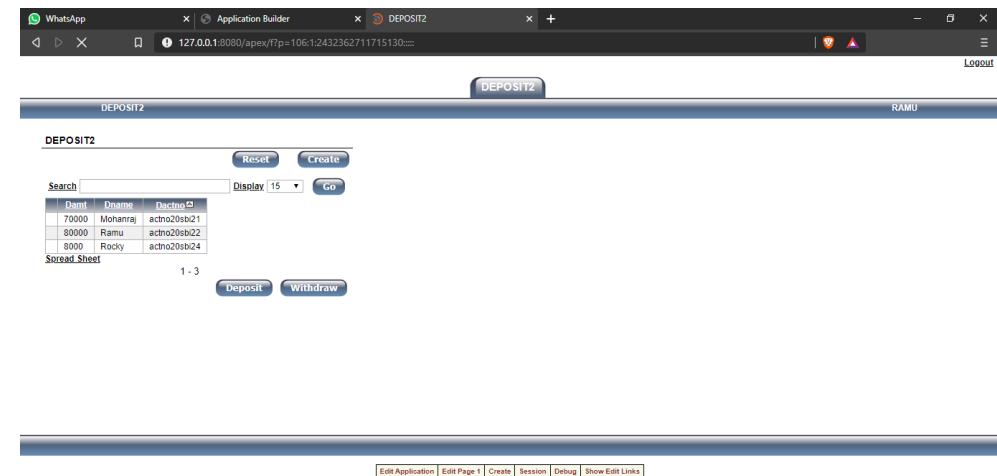
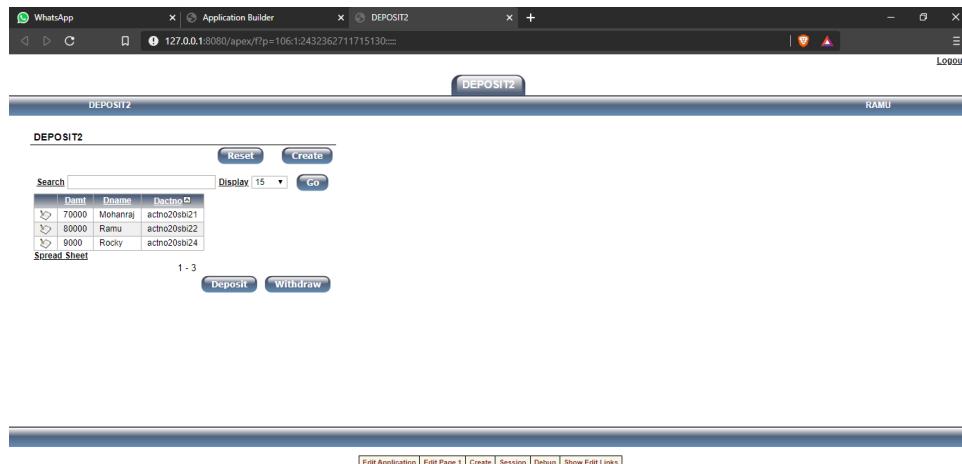
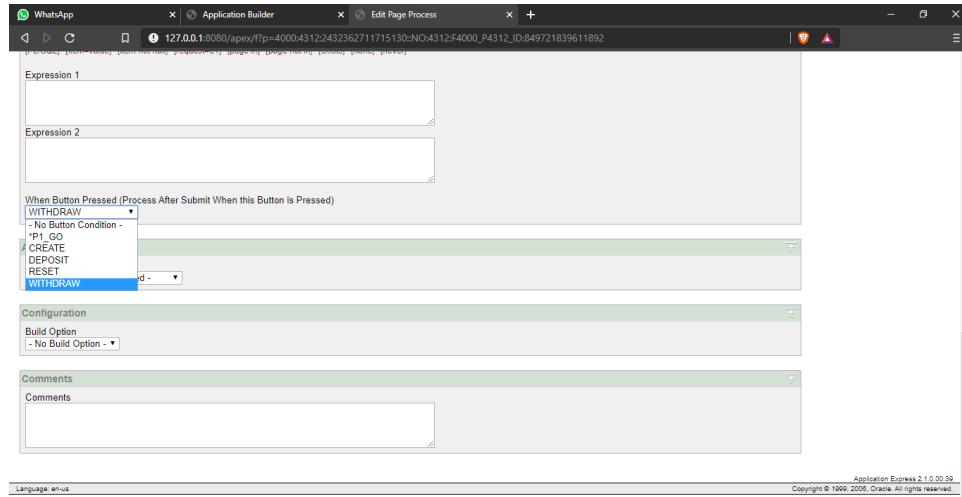
- No Button Condition
- P1_Go
- CREATE
- DEPOSIT
- RESET
- WITHDRAW

Configuration

Build Option

Comments

Comments



10. BUS RESERVATION

SAMPLE INPUT AND OUTPUT:



Create Database User

User SYSTEM

Home > Administration > Manage Database Users > Create Database User

Create Database User

Cancel | Create

Username: rocky
Password: [REDACTED]
Confirm Password: [REDACTED]
Expire Password: []
Account Status: Unlocked
Default Tablespace: USERS
Temporary Tablespace: TEMP

User Privileges

Roles:
 CONNECT RESOURCE DBA

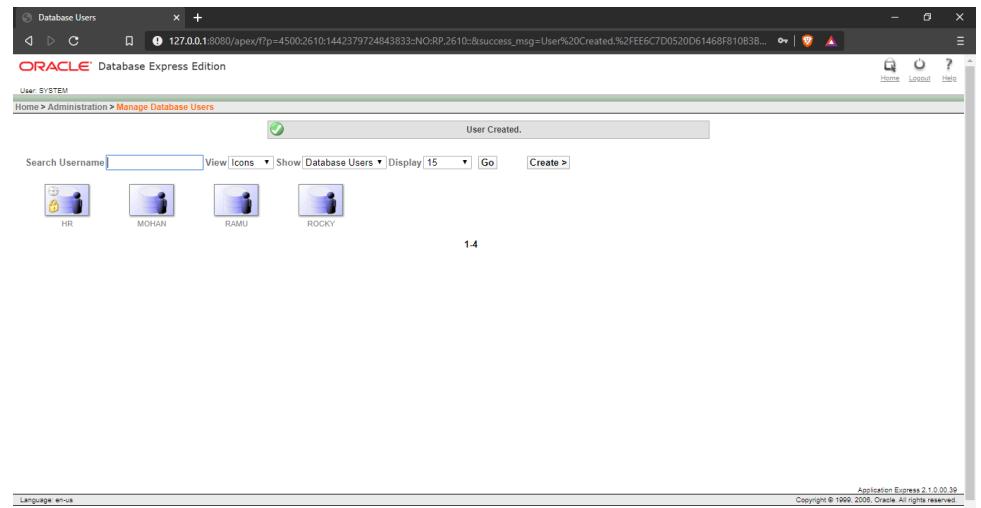
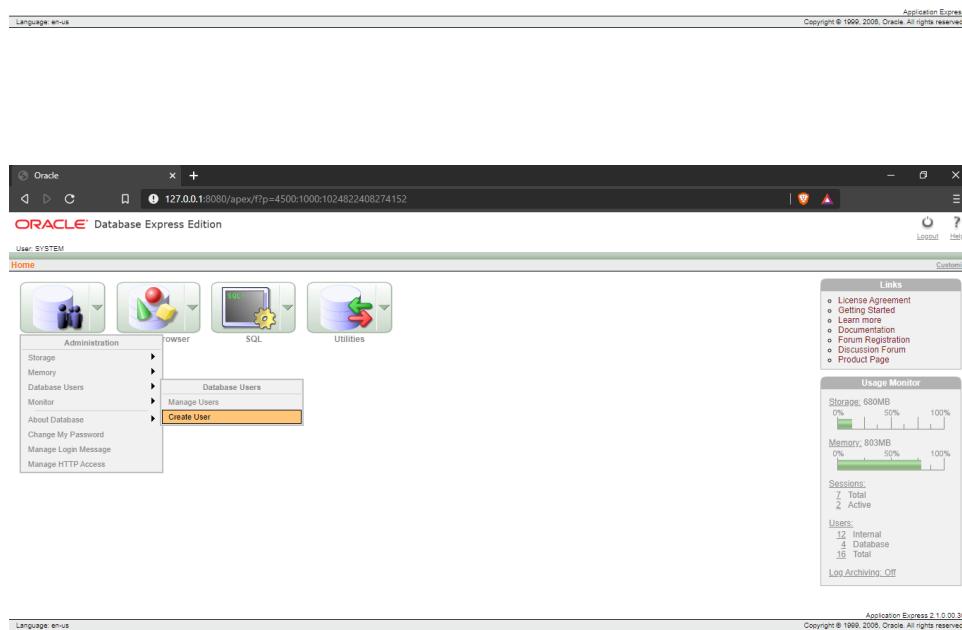
Direct Grant System Privileges:

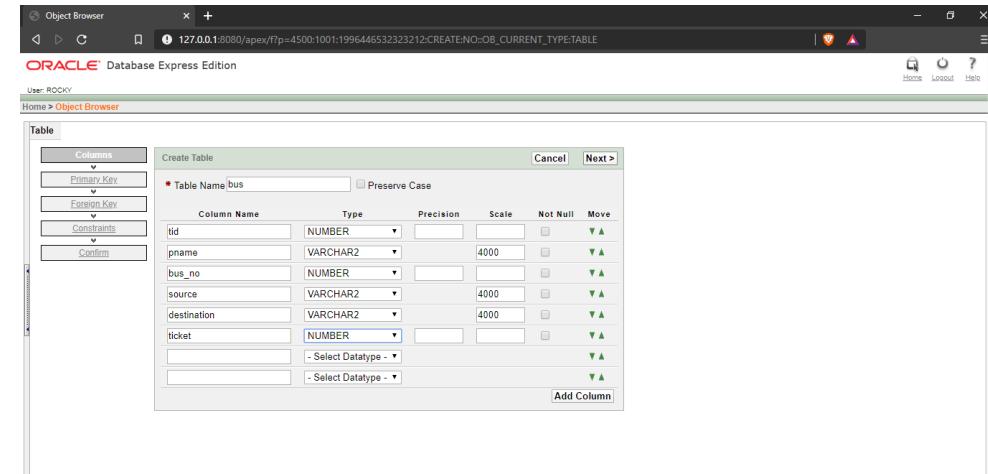
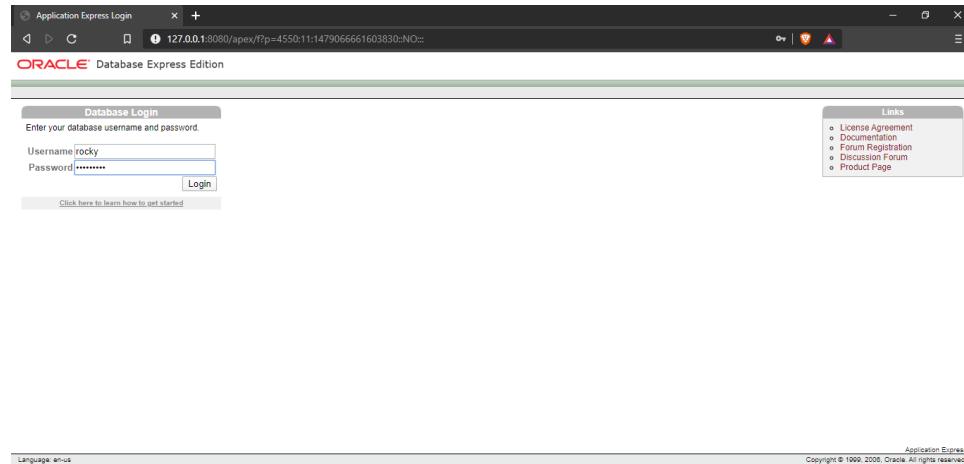
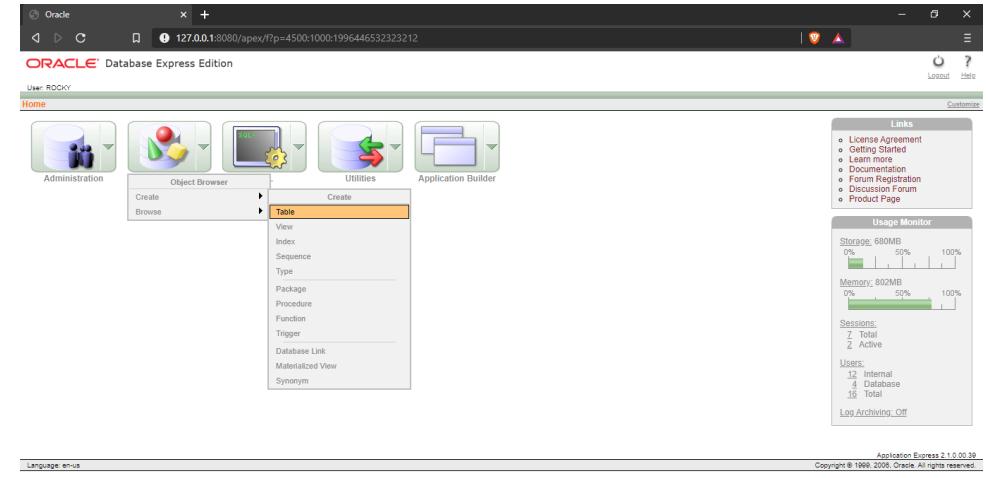
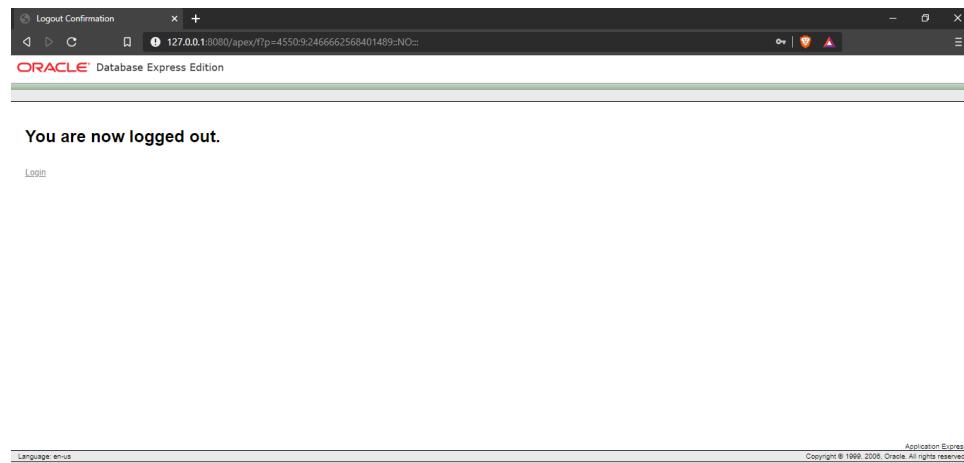
- CREATE DATABASE LINK
- CREATE MATERIALIZED VIEW
- CREATE PROCEDURE
- CREATE PUBLIC SYNONYM
- CREATE ROLE
- CREATE SEQUENCE
- CREATE SYNONYM
- CREATE TABLE
- CREATE TRIGGER
- CREATE TYPE
- CREATE VIEW

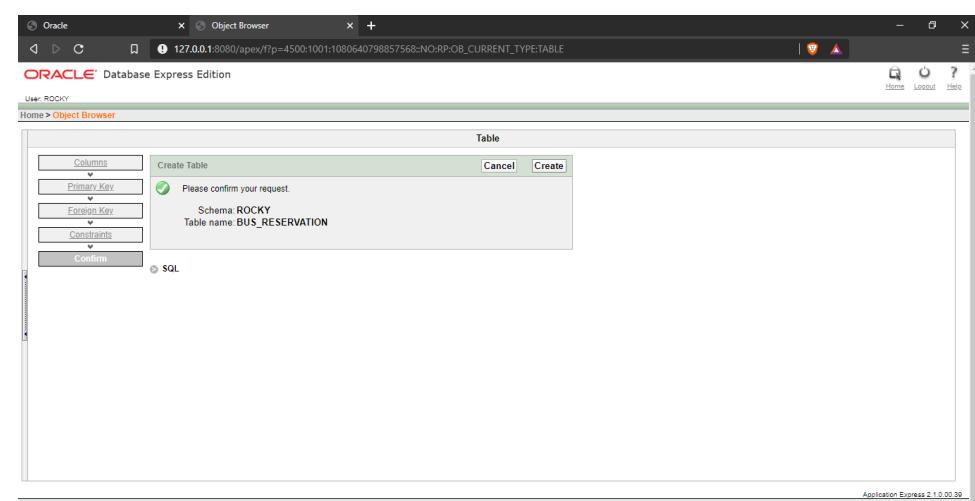
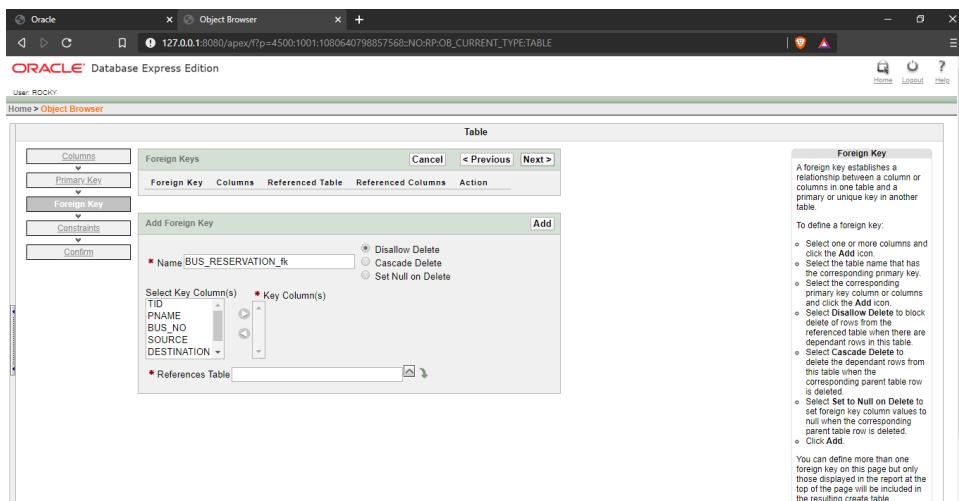
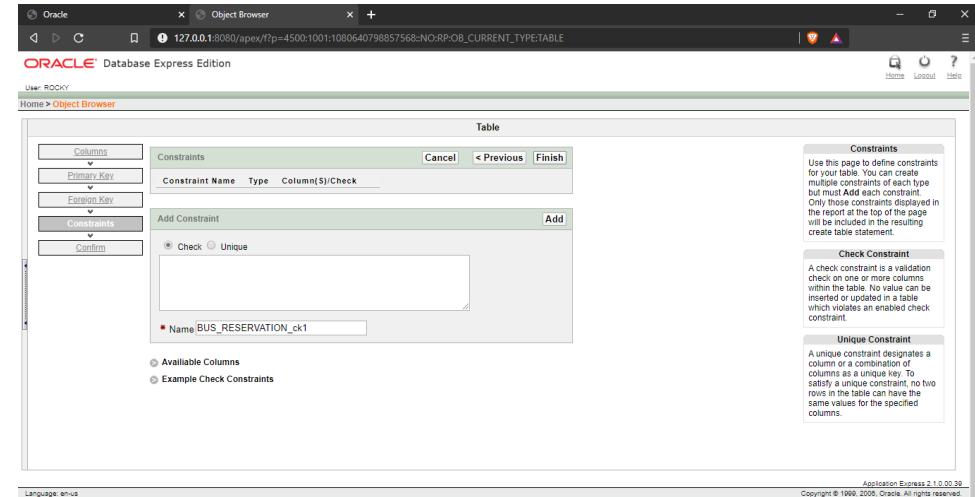
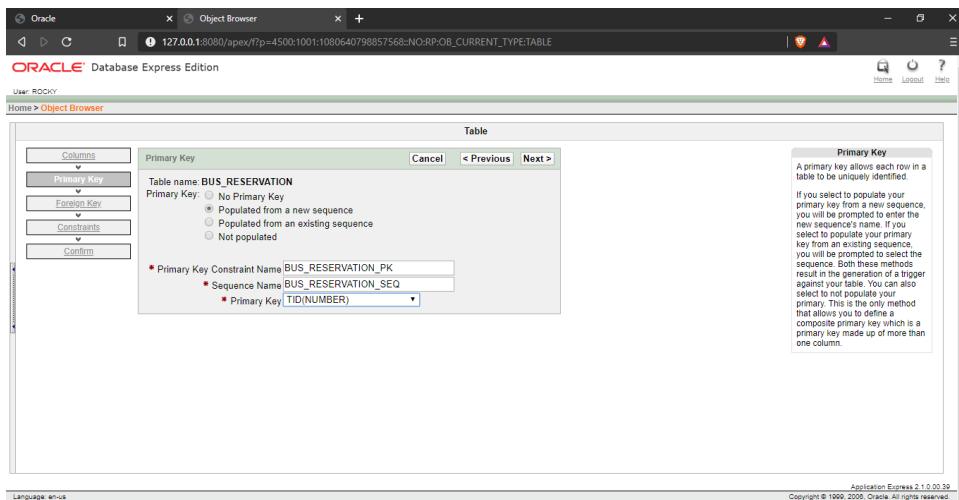
[Check All Uncheck All](#)

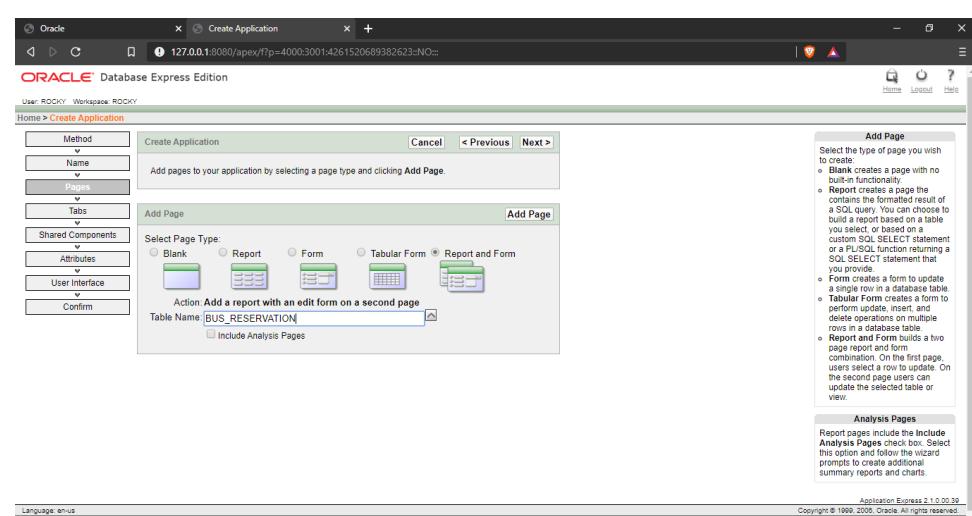
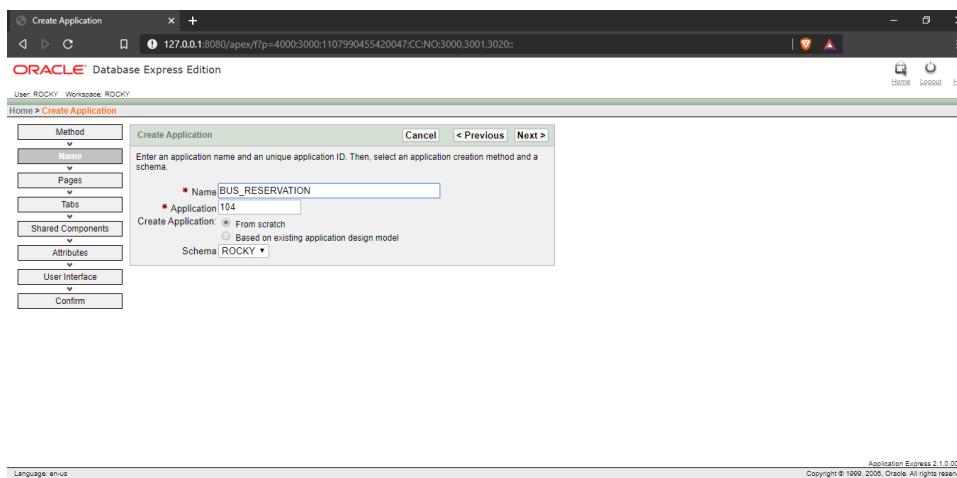
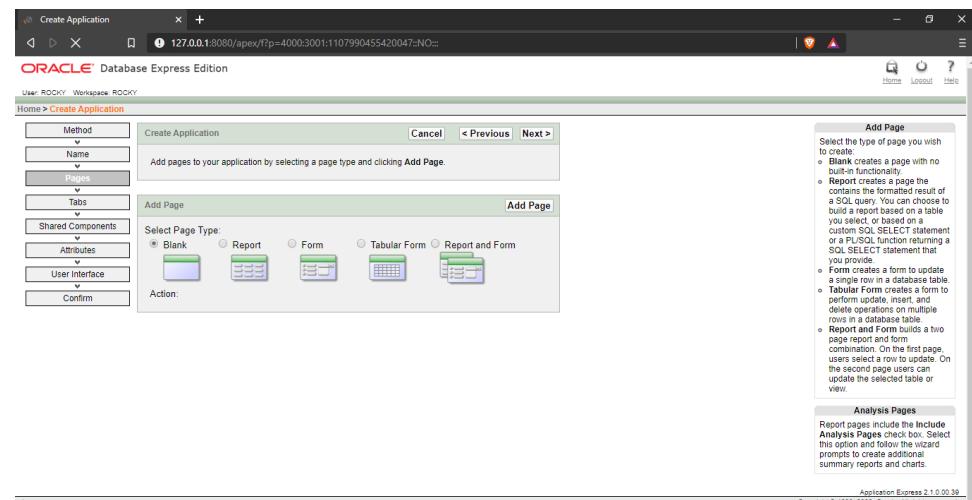
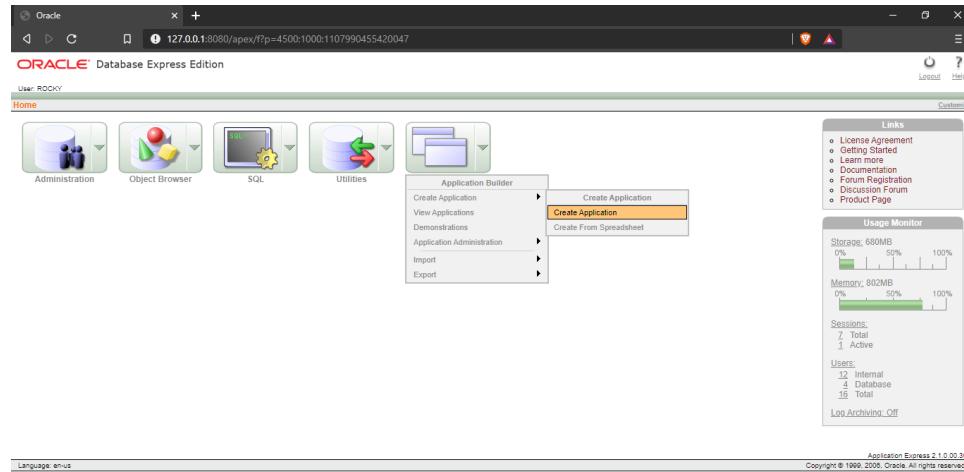
Language: en-us

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Oracle Database Express Edition

User: ROCKY Workspace: ROCKY

Home > Create Application

Create Application

Page	Page Name	Page Type	Source Type	Source
1	BUS_RESERVATION	Report	Table	BUS_RESERVATION
2	BUS_RESERVATION	Form	Table	BUS_RESERVATION

Add Page

Select Page Type:

- Blank
- Report
- Form
- Tabular Form
- Report and Form

Action: Add a report with an edit form on a second page

Subordinate to Page: Top Level Page -

Table Name:

Include Analysis Pages

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Oracle Database Express Edition

User: ROCKY Workspace: ROCKY

Home > Create Application

Create Application

Add Page

Select the type of page you wish to create:

- Blank creates a page with no built-in functionality.
- Report creates a page that contains the results of a SQL query. You can choose to build a report based on a table you select, or based on a custom SQL SELECT statement or by specifying a SQL SELECT statement that you provide.
- Form creates a form to update a single row in a database table.
- Tabular Form creates a form to perform update, insert, and delete operations on multiple rows in a database table.
- Report and Form builds a two-page report form combination. On the first page, users select a row to update. On the second page users can update the selected table or view.

Copy Shared Components from Another Application:

- Yes
- No

Attributes

User Interface

Confirm

Language: en-us

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Oracle Database Express Edition

User: ROCKY Workspace: ROCKY

Home > Create Application

Create Application

Application: 105 Name: BUS_RESERVATION

Tabs:

- No Tabs
- One Level of Tabs
- Two Levels of Tabs

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Oracle Database Express Edition

User: ROCKY Workspace: ROCKY

Home > Create Application

Create Application

Authentication Scheme: Database Account

Language: English (United States) (en-us)

User Language Preference Derived From: Use Application Primary Language

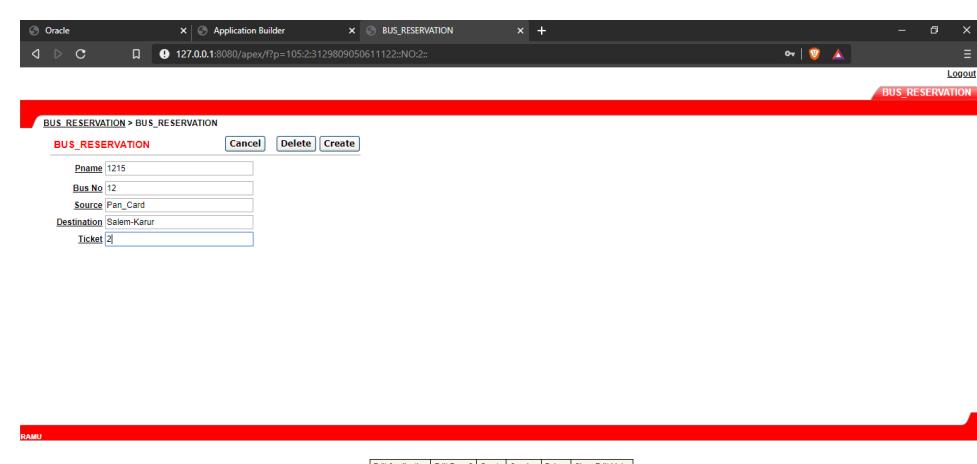
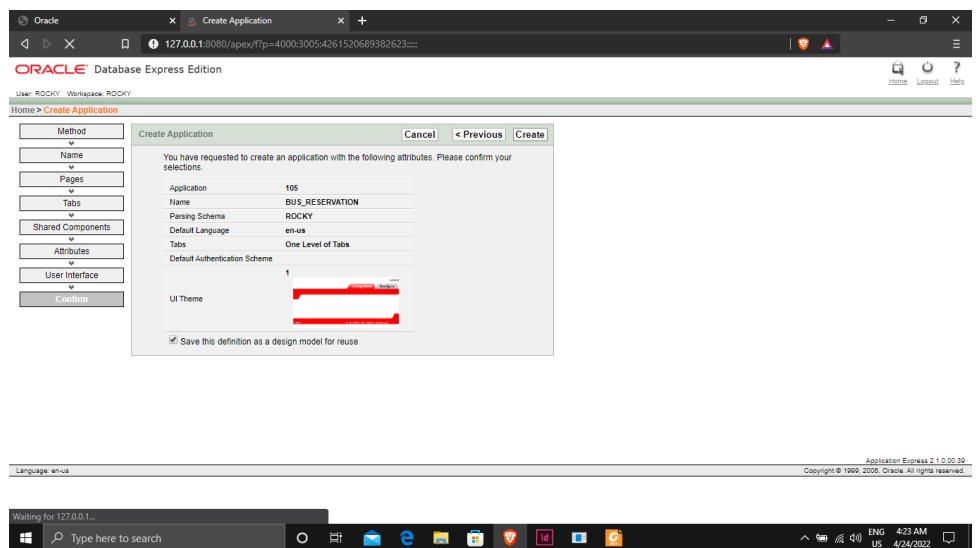
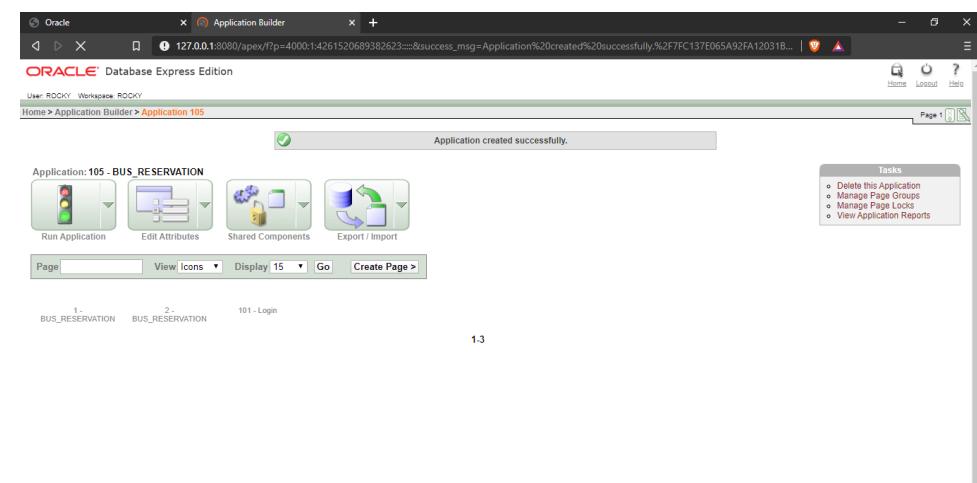
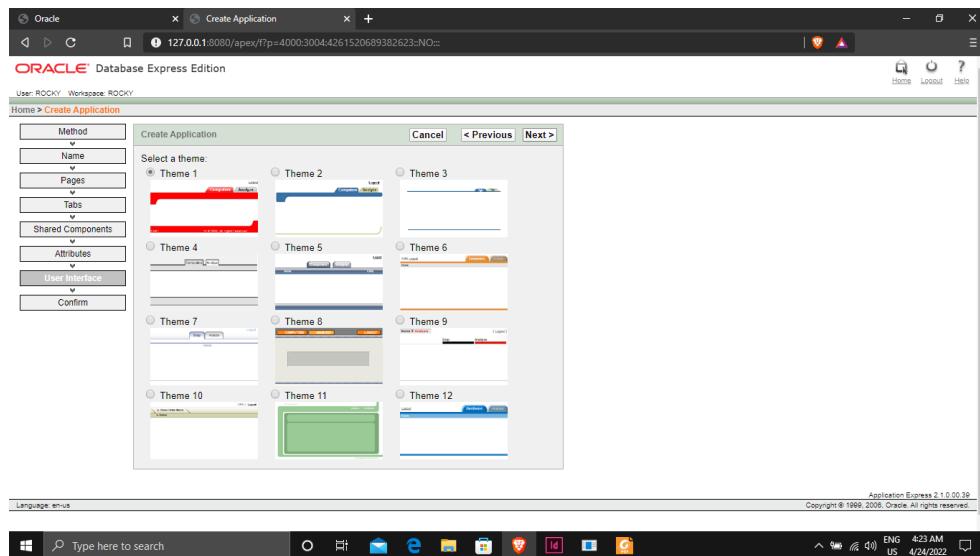
Attributes

User Interface

Confirm

Language: en-us

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The screenshot shows a browser window for Oracle Application Builder with the title "BUS_RESERVATION". The page displays a table of bus reservations with columns: Pname #, Ticket, Source, Destination, and Bus No. There are two entries: one for Pname # 1215 with Ticket 2, Source Pan_Card, Destination Salem-Karur, and Bus No 12; and another for Pname # Mohanraj with Ticket 1, Source Aadhar_Card, Destination Salem-Namakkal, and Bus No 54. A "Spread Sheet" link is present at the bottom left. The status bar at the bottom right shows "1 - 2".

This screenshot shows the same Oracle Application Builder interface as the first one, but it displays only one record. The table shows a single entry for Pname # 1215 with Ticket 2, Source Pan_Card, Destination Salem-Karur, and Bus No 12. The status bar at the bottom right shows "1 - 1".

The screenshot shows a detailed view of a bus reservation. The title bar includes the application name and session ID. The main area contains a form with fields for Pname (Mohanraj), Bus No (54), Source (Aadhar_Card), Destination (Salem-Namakkal), and Ticket (1). Below the form are buttons for Cancel, Delete, and Apply Changes. The status bar at the bottom right shows "1 - 1".

