



Experiment : 1.2

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UID – 20BCS2761

BRANCH – BTECH CSE

SUB – DBMS LAB

SEM – 3RD

DATE – 13 SEPT 2021

Ques : 2

Consider the database for a banking enterprise. Write the queries for the below questions.

Insert at least 5 tuples in each table

- Display the branch details
- List the customers of 'Mumbai' city
- List the male customers of 'Kolkata' city
- List the state having more than one branch.
- List the deposit schemes provided by the bank to the customers

a. Display the branch details

C_ID	C_NAME	GENDER	SCHEMAS	B_ID
29	Rahul	M	SB	1286
41	Anmol	M	RD	1400
52	Pranay Pankaj	M	RD	1806
60	Anjali	F	RD	1354
80	Nikita	F	MIS	1109
30	Shubham	M	SCSS	1806
12	Akash	M	KVP	1806
98	Asif Rahmaan	M	KVP	1286
65	Abhijeet	M	SB	1286

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9 rows selected.



b. List the customers of 'Mumbai' city

C_ID	C_NAME
52	Pranay Pankaj
30	Shubham
12	Akash

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3 rows selected.

c. List the male customers of 'Kolkata' city

C_ID	C_NAME	GENDER
29	Rahul	M
98	Asif Rahmaan	M
65	Abhijeet	M

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3 rows selected.

d. List the state having more than one branch.

B_STATE
Maharashtra
West Bengal

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2 rows selected.



e. List the deposit schemes provided by the bank to the customers

SCHEMAS
SB
KVP
RD
MIS
SCSS

Download CSV

5 rows selected.

Program code :

SQL Worksheet

```
1 create table Branch(B_id int NOT NULL primary key, B_name varchar(50)
2 NOT NULL, B_city varchar(30) NOT NULL , B_state varchar(30) NOT NULL );
3 insert into Branch values('1286', 'S.K. Puri', 'Kolkata', 'West Bengal');
4 insert into Branch values('1400', 'J.P. Park', 'Jaipur', 'Rajasthan');
5 insert into Branch values('1806', 'IIT Bombay', 'Mumbai', 'Maharashtra');
6 insert into Branch values('1354', 'AIIMS', 'Pune', 'Maharashtra');
7 insert into Branch values('1259', 'Gajendra Path', 'Nagpur', 'Maharashtra');
8 insert into Branch values('1109', 'Tagore Path', 'Sohlan', 'West Bengal');
9 Select * from Branch;
10 -- Customers Details
11 create table Customers(C_id int NOT NULL PRIMARY KEY, C_name varchar(50) NOT NULL,
12 Gender char(1) NOT NULL, Schemas char(9), B_id int NOT NULL ,
13 foreign key(B_id) references Branch(B_id),
14 check (Gender in ('M', 'F', 'O')) );
15 insert into Customers values('29', 'Rahul', 'M', 'SB', '1286');
16 insert into Customers values('41', 'Anmol ', 'M', 'RD', '1400');
17 insert into Customers values('52', 'Pranay Pankaj', 'M', 'RD', '1806');
18 insert into Customers values('60', 'Anjali ', 'F', 'RD', '1354');
19 insert into Customers values('72', 'Sakshi', 'F', 'TD', '1289');
20 insert into Customers values('80', 'Nikita', 'F', 'MIS', '1109');
21 insert into Customers values('30', 'Shubham', 'M', 'SCSS', '1806');
22 insert into Customers values('12', 'Akash', 'M', 'KVP', '1806');
23 insert into Customers values('98', 'Asif Rahmaan', 'M', 'KVP', '1286');
24 insert into Customers values('65', 'Abhijeet', 'M', 'SB', '1286');
25 select *from Customers;
```

```

25 select *from Customers;
26 -- a)
27 Select B_name, B_city, B_state from Branch;
28 -- b)
29 select C_id, C_name from Customers where B_id in (select B_id from Branch where B_city = 'Mumbai');
30 -- c)
31 select C_id, C_name, Gender from Customers where Gender = 'M' AND B_id in (select B_id from Branch where B_city = 'Kolkata');
32 -- d)
33 select B_state from Branch GROUP BY B_state HAVING COUNT(B_state) > 1;
34 -- e)
35 select Schemas from Customers GROUP BY Schemas;
36
37

```

CODE

```

create table Branch(B_id int NOT NULL primary key, B_name varchar(50)
NOTNULL, B_city varchar(30) NOT NULL , B_state varchar(30) NOT NULL
);

```

```

insert into Branch values('1286', 'S.K. Puri', 'Kolkata', 'West
Bengal');insert into Branch values('1400', 'J.P. Park', 'Jaipur',
'Rajasthan');

```

```

insert into Branch values('1806', 'IIT Bombay', 'Mumbai',
'Maharashtra');insert into Branch values('1354', 'AIIMS', 'Pune',
'Maharashtra');

```

```

insert into Branch values('1259', 'Gajendra Path', 'Nagpur',
'Maharashtra');insert into Branch values('1109', 'Tagore Path',
'Sohlan', 'West Bengal'); Select * from Branch;

```

-- Customers Details

```

create table Customers(C_id int NOT NULL PRIMARY KEY, C_name
varchar(50)NOT NULL, Gender char(1) NOT NULL, Schemas char(9), B_id
int NOT NULL ,

```

```

foreign key(B_id) references Branch(B_id), check (Gender in ('M', 'F',
'O')));

```

```

insert into Customers values('29', 'Rahul', 'M', 'SB', '1286');

```

```

insert into Customers values('41', 'Anmol ', 'M', 'RD', '1400');

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insert into Customers values('52', 'Pranay Pankaj', 'M', 'RD',
'1806');insert into Customers values('60', 'Anjali ', 'F', 'RD',
'1354');

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```

insert into Customers values('72', 'Sakshi', 'F', 'TD', '1289');

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insert into Customers values('80', 'Nikita', 'F', 'MIS', '1109');

```



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```
insert into Customers values('30', 'Shubham', 'M', 'SCSS',  
'1806');insert into Customers values('12', 'Akash', 'M', 'KVP',  
'1806');  
insert into Customers values('98', 'Asif Rahmaan', 'M', 'KVP',  
'1286');insert into Customers values('65', 'Abhijeet', 'M', 'SB',  
'1286');
```

```
select *from Customers;  
-- a)
```



```
Select B_name, B_city, B_state from Branch;
-- b)
select C_id, C_name from Customers where B_id in (select B_id from
Branchwhere B_city = 'Mumbai');
-- c)
select C_id, C_name, Gender from Customers where Gender = 'M' AND B_id
in(select B_id from Branch where B_city = 'Kolkata');
-- d)
select B_state from Branch GROUP BY B_state HAVING COUNT(B_state) > 1;
-- e)
select Schemas from Customers GROUP BY Schemas;
```