DESC branch

```
6  CREATE TABLE branch(
7      branch_name VARCHAR(30) PRIMARY KEY,
8      branch_city VARCHAR(30),
9      assets REAL
10 );
11
12  desc branch;
```

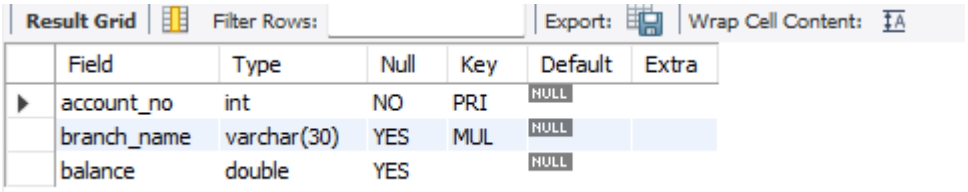
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
branch_name	varchar(30)	NO	PRI	NULL	
branch_city	varchar(30)	YES		NULL	
assets	double	YES		NULL	

```
53  INSERT INTO branch VALUES
54      ("SBI_Chamrajpet", "Bangalore", 50000),
55      ("SBI_Residency_Road", "Bangalore", 10000),
56      ("SBI_Shivaji_Road", "Bangalore", 20000),
57      ("SBI_Parliament_Road", "Bangalore", 10000),
58      ("SBI_Jantar_Mantar", "Delhi", 20000);
59
```

DESC bank_account

```
15 CREATE TABLE bank_account(
16     account_no INTEGER PRIMARY KEY,
17     branch_name VARCHAR(30),
18     balance REAL,
19     FOREIGN KEY(branch_name) REFERENCES branch(branch_name)
20 );
21
22 desc bank_account;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
account_no	int	NO	PRI	NULL	
branch_name	varchar(30)	YES	MUL	NULL	
balance	double	YES		NULL	

```
61 •  INSERT INTO bank_account VALUES
62        (1, "SBI_Chamrajpet", 2000),
63        (2, "SBI_Residency_Road", 5000),
64        (3, "SBI_Shivaji_Road", 6000),
65        (4, "SBI_Parliament_Road", 9000),
66        (5, "SBI_Jantar_Mantar", 8000),
67        (6, "SBI_Shivaji_Road", 4000),
68        (8, "SBI_Residency_Road", 5000),
69        (9, "SBI_Parliament_Road", 3000),
70        (10, "SBI_Residency_Road", 5000),
71        (11, "SBI_Jantar_Mantar", 2000);
72
```

DESC bank_customer

```
CREATE TABLE bank_customer(
    customer_name VARCHAR(30) PRIMARY KEY,
    customer_street VARCHAR(30),
    customer_city VARCHAR(30)
);

DESC bank_customer;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
customer_name	varchar(30)	NO	PRI	NULL	
customer_street	varchar(30)	YES		NULL	
customer_city	varchar(30)	YES		NULL	

```
INSERT INTO bank_customer VALUES
    ("Avinash", "Bull_Temple_Road", "Bangalore"),
    ("Dinesh", "Bannergatta_Road", "Bangalore"),
    ("Mohan", "National_College_Road", "Bangalore"),
    ("Nikhil", "Akbar_Road", "Delhi"),
    ("Ravi", "Prithviraj_Road", "Delhi");
```

DESC depositor

```
CREATE TABLE depositor(
    customer_name VARCHAR(30),
    account_no INTEGER,
    PRIMARY KEY (customer_name, account_no),
    FOREIGN KEY(customer_name) REFERENCES bank_customer(customer_name),
    FOREIGN KEY(account_no) REFERENCES bank_account(account_no)
);

DESC depositor;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
customer_name	varchar(30)	NO	PRI	NULL	
account_no	int	NO	PRI	NULL	

```
INSERT INTO depositor VALUES
    ("Avinash", 1),
    ("Avinash", 8),
    ("Dinesh", 2),
    ("Nikhil", 4),
    ("Nikhil", 9),
    ("Dinesh", 10),
    ("Nikhil", 11),
    ("Ravi", 5);
```

DESC loan;

```
44 • CREATE TABLE loan(
45       loan_number INTEGER PRIMARY KEY,
46       branch_name VARCHAR(30),
47       amount REAL,
48       FOREIGN KEY(branch_name) REFERENCES branch(branch_name)
49   );
50
51 • DESC loan;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

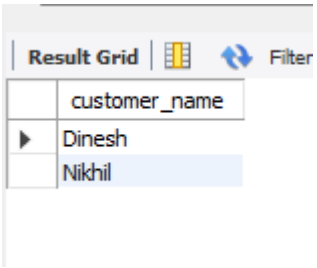
Field	Type	Null	Key	Default	Extra
loan_number	int	NO	PRI	NULL	
branch_name	varchar(30)	YES	MUL	NULL	
amount	double	YES		NULL	

```
91 • INSERT INTO loan VALUES
92       (1, 'SBI_Chamrajpet', 1000),
93       (2, 'SBI_Residency_Road', 2000),
94       (3, 'SBI_Residency_Road', 3000),
95       (4, 'SBI_Shivaji_Road', 4000),
96       (5, 'SBI_Jantar_Mantar', 5000);
97
```

QUERY 3

Find all the customers who have atleast two deposits at the same branch

```
99  SELECT d.customer_name, count(d.customer_name) AS  Number_of_Acoounts, ba.branch_name
00  FROM depositor d
01  NATURAL JOIN bank_account ba
02  GROUP BY d.customer_name, ba.branch_name
03  HAVING COUNT(d.account_no) >= 2;
```



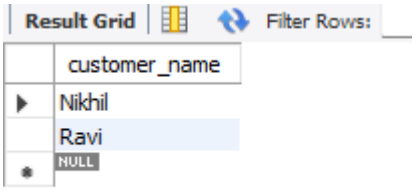
Result Grid | Filter

customer_name
Dinesh
Nikhil

QUERY 4

Find all the customers who have an account at all the branches located in specific city ex: Delhi

```
SELECT bc.customer_name
FROM bank_customer bc
WHERE NOT EXISTS (
    SELECT branch_name
    FROM branch
    WHERE branch_city = "Delhi"
    AND branch_name NOT IN (
        SELECT ba.branch_name
        FROM depositor d
        JOIN bank_account ba ON d.account_no = ba.account_no
        WHERE d.customer_name = bc.customer_name
    )
);
```



Result Grid | Filter Rows:

customer_name
Nikhil
Ravi
NULL

QUERY 5

Demonstrate how you delete all the account tuples at a branch located at ex: Shivaji Road

```
DELETE FROM bank_account
WHERE branch_name IN (
    SELECT branch_name
    FROM branch
    where branch_name = "SBI_Shivaji_Road"
);
```