Mahantesh Gattina ~ 1BM19CS219

PROGRAM-2: BANKING ENTERPRISE DATABASE

CREATE DATABASE bank

CREATE TABLE branch( branch\_name VARCHAR(20) NOT NULL, branch\_city VARCHAR(20) NOT NULL, assets REAL NOT NULL, PRIMARY KEY(branch\_name) )

desc branch

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |  |
| branch\_name | varchar(20) | NO | PRI | NULL |  |  |
| branch\_city | varchar(20) | NO |  | NULL |  |  |
| assets | double | NO |  | NULL |  |  |

CREATE TABLE banck\_account( accno INT NOT NULL, branch\_name VARCHAR(20) NOT NULL, balance REAL NOT NULL, PRIMARY KEY(accno), FOREIGN KEY(branch\_name) REFERENCES branch(branch\_name) )

ALTER TABLE banck\_account RENAME TO bank\_account

desc bank\_account

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |  |
| accno | int(11) | NO | PRI | NULL |  |  |
| branch\_name | varchar(20) | NO | MUL | NULL |  |  |
| balance | double | NO |  | NULL |  |  |

CREATE TABLE bank\_customer( customer\_name VARCHAR(20) NOT NULL, customer\_street VARCHAR(30) NOT NULL, city VARCHAR(20) NOT NULL, PRIMARY KEY(customer\_name) )

DESC bank\_customer

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |  |
| customer\_name | varchar(20) | NO | PRI | NULL |  |  |
| customer\_street | varchar(30) | NO |  | NULL |  |  |
| city | varchar(20) | NO |  | NULL |  |  |

CREATE TABLE depositor( customer\_name VARCHAR(20) NOT NULL, accno INT NOT NULL, FOREIGN KEY(customer\_name) REFERENCES bank\_customer(customer\_name), FOREIGN KEY (accno) REFERENCES bank\_account(accno) )

DESC depositor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |  |
| customer\_name | varchar(20) | NO | MUL | NULL |  |  |
| accno | int(11) | NO | MUL | NULL |  |  |

CREATE TABLE loan( loan\_number INT NOT NULL, branch\_name VARCHAR(20) NOT NULL, amount REAL NOT NULL, FOREIGN KEY(branch\_name) REFERENCES branch(branch\_name) )

DESC loan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |  |
| loan\_number | int(11) | NO |  | NULL |  |  |
| branch\_name | varchar(20) | NO | MUL | NULL |  |  |
| amount | double | NO |  | NULL |  |  |

INSERT INTO branch (branch\_name,branch\_city,assets) VALUES ('SBI\_Chamrajpet','Bangalore',50000), ('SBI\_ResidencyRoad','Bangalore',10000), ('SBI\_ShivajiRoad','Bangalore',20000), ('SBI\_ParliamentRoad','Delhi',10000), ('SBI\_Jantarmantar','Delhi',20000)

SELECT \* FROM branch

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | **[branch\_name](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&sql_query=SELECT+*+FROM+branch++%0AORDER+BY+`branch`.`branch_name`+ASC&sql_signature=6b56fa01ca441f6eb389fe29e221fd4c7d3bfab5c1a06f06e4d170379e4e1bb6&session_max_rows=25&is_browse_distinct=0)** | **[branch\_city](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&sql_query=SELECT+*+FROM+branch++%0AORDER+BY+`branch`.`branch_city`+ASC&sql_signature=77906e6ce2eb576760fa06fba3b4eedea95e3721832d8ea91a820792850970c4&session_max_rows=25&is_browse_distinct=0)** | **[assets](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&sql_query=SELECT+*+FROM+branch++%0AORDER+BY+`branch`.`assets`+ASC&sql_signature=7635a0fd19cfe1ffc5ef0369e850faff01c982a3bde542d03dbd3c27e3a9c643&session_max_rows=25&is_browse_distinct=0)** |  | | | |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | SBI\_Chamrajpet | Bangalore | 50000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | SBI\_Jantarmantar | Delhi | 20000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | SBI\_ParliamentRoad | Delhi | 10000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | SBI\_ResidencyRoad | Bangalore | 10000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | SBI\_ShivajiRoad | Bangalore | 20000 |  |  |  |  |

INSERT INTO loan (branch\_name,loan\_number,amount) VALUES ('SBI\_Chamrajpet',1,1000), ('SBI\_ResidencyRoad',2,2000), ('SBI\_ShivajiRoad',3,3000), ('SBI\_ParliamentRoad',4,4000), ('SBI\_Jantarmantar',5,5000)

SELECT \* FROM loan

|  |  |  |  |
| --- | --- | --- | --- |
| **[loan\_number](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=loan&sql_query=SELECT+*+FROM+loan++%0AORDER+BY+`loan`.`loan_number`+ASC&sql_signature=daaaa23f20740bee73a5d3e2b30ff36d63bfae597d9422734c15c12ad15c57fc&session_max_rows=25&is_browse_distinct=0)** | **[branch\_name](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=loan&sql_query=SELECT+*+FROM+loan++%0AORDER+BY+`loan`.`branch_name`+ASC&sql_signature=9ac8c6a56a515ec45c34c77f032ba15882ffa55271e53d01a155762227e15423&session_max_rows=25&is_browse_distinct=0)** | **[amount](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=loan&sql_query=SELECT+*+FROM+loan++%0AORDER+BY+`loan`.`amount`+ASC&sql_signature=8839b7e4df6a189c34f930d3acb9a70cbc59d0922fbf04dc4930652212c9a6d5&session_max_rows=25&is_browse_distinct=0)** |  |
| 1 | [SBI\_Chamrajpet](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=405b001f906fd69e746ba638e945e58389926f3a55651dff404707d37afcc92e&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_Chamrajpet'" \o "SBI_Chamrajpet) | 1000 |  |
| 2 | [SBI\_ResidencyRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=d6806396ab0f7bf3b305220836af882a8770b1161390974393838b2fea9fe135&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ResidencyRoad'" \o "SBI_ResidencyRoad) | 2000 |  |
| 3 | [SBI\_ShivajiRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=99d262e772d664313bee46c46f6730109a0547965d66662f7e8193d329099bc4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ShivajiRoad'" \o "SBI_ShivajiRoad) | 3000 |  |
| 4 | [SBI\_ParliamentRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=9ca25d9a38b3fb0c49a7bd544ba80b6606d1e9eb06525775a47c8f1b44b0bc8f&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ParliamentRoad'" \o "SBI_ParliamentRoad) | 4000 |  |
| 5 | [SBI\_Jantarmantar](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=917c51c6c11c20a6c157ac40aa419d0cae23c7921abefb0810588aaa373166f4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_Jantarmantar'" \o "SBI_Jantarmantar) | 5000 |  |

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (5,'SBI\_Jantarmantar',8000);

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (11,'SBI\_Jantarmantar',8000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (10,'SBI\_ResidencyRoad',5000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (8,'SBI\_ResidencyRoad',4000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (9,'SBI\_ParliamentRoad',3000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (6,'SBI\_ShivajiRoad',4000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (4,' SBI\_ParliamentRoad',5000);

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (1,'SBI\_Chamrajpet',2000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (2,'SBI\_ResidencyRoad',3000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (3,'SBI\_ShivajiRoad',4000)

INSERT INTO bank\_account (accno, branch\_name, balance) VALUES (4,'ParlimentRoad',5000);

SELECT \* FROM `bank\_account`

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | **[accno](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&sql_query=SELECT+*+FROM+`bank_account`++%0AORDER+BY+`bank_account`.`accno`+ASC&sql_signature=bb6f7a1053ebed34f78420a42dd3e3d962735af3fda88556193eb1c0c28a756a&session_max_rows=25&is_browse_distinct=0)** | **[branch\_name](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&sql_query=SELECT+*+FROM+`bank_account`++%0AORDER+BY+`bank_account`.`branch_name`+ASC&sql_signature=823fb530c8dba8169a8bb9528f6160ec59e089a3f93e8006e3521a08d785640a&session_max_rows=25&is_browse_distinct=0)** | **[balance](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&sql_query=SELECT+*+FROM+`bank_account`++%0AORDER+BY+`bank_account`.`balance`+ASC&sql_signature=45da53872854b797403cd8568f03347c194ccdfca9f437ef316860390b293725&session_max_rows=25&is_browse_distinct=0)** |  | | | |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 1 | [SBI\_Chamrajpet](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=405b001f906fd69e746ba638e945e58389926f3a55651dff404707d37afcc92e&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_Chamrajpet'" \o "SBI_Chamrajpet) | 2000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 2 | [SBI\_ResidencyRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=d6806396ab0f7bf3b305220836af882a8770b1161390974393838b2fea9fe135&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ResidencyRoad'" \o "SBI_ResidencyRoad) | 3000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 3 | [SBI\_ShivajiRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=99d262e772d664313bee46c46f6730109a0547965d66662f7e8193d329099bc4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ShivajiRoad'" \o "SBI_ShivajiRoad) | 4000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 4 | [SBI\_ParliamentRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=9ca25d9a38b3fb0c49a7bd544ba80b6606d1e9eb06525775a47c8f1b44b0bc8f&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ParliamentRoad'" \o "SBI_ParliamentRoad) | 5000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 5 | [SBI\_Jantarmantar](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=917c51c6c11c20a6c157ac40aa419d0cae23c7921abefb0810588aaa373166f4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_Jantarmantar'" \o "SBI_Jantarmantar) | 8000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 6 | [SBI\_ShivajiRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=99d262e772d664313bee46c46f6730109a0547965d66662f7e8193d329099bc4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ShivajiRoad'" \o "SBI_ShivajiRoad) | 4000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 8 | [SBI\_ResidencyRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=d6806396ab0f7bf3b305220836af882a8770b1161390974393838b2fea9fe135&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ResidencyRoad'" \o "SBI_ResidencyRoad) | 4000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 9 | [SBI\_ParliamentRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=9ca25d9a38b3fb0c49a7bd544ba80b6606d1e9eb06525775a47c8f1b44b0bc8f&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ParliamentRoad'" \o "SBI_ParliamentRoad) | 3000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 10 | [SBI\_ResidencyRoad](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=d6806396ab0f7bf3b305220836af882a8770b1161390974393838b2fea9fe135&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_ResidencyRoad'" \o "SBI_ResidencyRoad) | 5000 |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | 11 | [SBI\_Jantarmantar](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=branch&pos=0&sql_signature=917c51c6c11c20a6c157ac40aa419d0cae23c7921abefb0810588aaa373166f4&sql_query=SELECT+*+FROM+`bank`.`branch`+WHERE+`branch_name`+=+'SBI_Jantarmantar'" \o "SBI_Jantarmantar) | 8000 |  |  |  |  |

insert into bank\_customer (customer\_name,customer\_street,city) VALUES ('Avinash','a','Bangalore')

insert into bank\_customer (customer\_name,customer\_street,city) VALUES ('Dinesh','b','Bangalore')

insert into bank\_customer (customer\_name,customer\_street,city) VALUES ('Mohan','c','Bangalore')

insert into bank\_customer (customer\_name,customer\_street,city) VALUES ('Nikil','d','Delhi')

insert into bank\_customer (customer\_name,customer\_street,city) VALUES ('Ravi','e','Delhi')

select \* from bank\_customer

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **[Full texts](http://localhost/phpmyadmin/index.php)** | | | | **[customer\_name](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&sql_query=select+*+from+bank_customer++%0AORDER+BY+`bank_customer`.`customer_name`+ASC&sql_signature=7548f3dbbe06b3f76bee5841b780499f85fe55a9e8c9ebf894281383a2c83ddb&session_max_rows=25&is_browse_distinct=0)** | **[customer\_street](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&sql_query=select+*+from+bank_customer++%0AORDER+BY+`bank_customer`.`customer_street`+ASC&sql_signature=125fdcb51818520d9506d64e6eccd7508573c167182f21707953ead2f0b5ee85&session_max_rows=25&is_browse_distinct=0)** | **[city](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&sql_query=select+*+from+bank_customer++%0AORDER+BY+`bank_customer`.`city`+ASC&sql_signature=add72c502606ab2b0b5c96dadea85908ae1a7054a2e3f373e4d0df304246d0a0&session_max_rows=25&is_browse_distinct=0)** |  | | | |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | Avinash | a | Bangalore |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | Dinesh | b | Bangalore |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | Mohan | c | Bangalore |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | Nikil | d | Delhi |  |  |  |  |
|  | [Edit Edit](http://localhost/phpmyadmin/index.php) | [Copy Copy](http://localhost/phpmyadmin/index.php) | [Delete Delete](http://localhost/phpmyadmin/index.php) | Ravi | e | Delhi |  |  |  |  |

insert into depositor (customer\_name,accno) VALUES ('Avinash',1)

insert into depositor (customer\_name,accno) VALUES ('Avinash',8)

insert into depositor (customer\_name,accno) VALUES ('Dinesh',2)

insert into depositor (customer\_name,accno) VALUES ('Dinesh',10)

insert into depositor (customer\_name,accno) VALUES ('Nikil',4)

insert into depositor (customer\_name,accno) VALUES ('Nikil',9)

insert into depositor (customer\_name,accno) VALUES ('Nikil',11)

insert into depositor (customer\_name,accno) VALUES ('Ravi',5)

select \* from depositor

|  |  |  |
| --- | --- | --- |
| **[customer\_name](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=depositor&sql_query=select+*+from+depositor++%0AORDER+BY+`depositor`.`customer_name`+ASC&sql_signature=db23046a2534673ff7a055c60d8c04a45f7aa395509527914d08c225f45b1582&session_max_rows=25&is_browse_distinct=0)** | **[accno IMG_256](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=depositor&sql_query=select+*+from+depositor++%0AORDER+BY+`depositor`.`accno`++DESC&sql_signature=b7c0501fbe98c88ad48b27c83f18356978f94c0f45e0f1621138f39c06676cff&session_max_rows=25&is_browse_distinct=0)**[1](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=depositor&sql_query=select+*+from+depositor++%0AORDER+BY+`depositor`.`accno`++DESC&sql_signature=b7c0501fbe98c88ad48b27c83f18356978f94c0f45e0f1621138f39c06676cff&session_max_rows=25&is_browse_distinct=0) |  |
| [Avinash](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=5190a0bafc59bad1f15fdb9c02f1dd14fee54ff42ebcf4ba92ae8932023311e3&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Avinash'" \o "Avinash) | [1](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=752e052d84b80e59044bd1f32f36e5d6576ccc9856ae7e9ce3fcaaf94abe841a&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+1" \o "SBI_Chamrajpet) |  |
| [Dinesh](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=6540fa5b6a2983b6dcef57907d86e8b06706eeedc1b439c8c729ced227e8233f&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Dinesh'" \o "Dinesh) | [2](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=e51f6a2e42855335728498d0c4a28e113a6224795250f774b9c1ed8093aa8912&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+2" \o "SBI_ResidencyRoad) |  |
| [Nikil](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=59b1a644c76ccd2b68eb95d4a7328ba7097deffabeeec35f5df6909d27a3d26a&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Nikil'" \o "Nikil) | [4](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=0f4c7483430cd871b764145f72480d6f68192bb37713faeff29a3f8f48dca8c4&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+4" \o "SBI_ParliamentRoad) |  |
| [Ravi](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=fde4ce5741bc7eb9756d3d1ef57ecc23cbda828489ea62d5a012e71d4dd7ec81&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Ravi'" \o "Ravi) | [5](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=7930acb22aac56cce61493e22213efb502c06f6f54b2f7460cfa134d8852a12c&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+5" \o "SBI_Jantarmantar) |  |
| [Avinash](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=5190a0bafc59bad1f15fdb9c02f1dd14fee54ff42ebcf4ba92ae8932023311e3&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Avinash'" \o "Avinash) | [8](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=f5ca6c565461fe044dd665e28e0d5a9f77c05f0963b1cf2b7193e0cb7f03e1bf&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+8" \o "SBI_ResidencyRoad) |  |
| [Nikil](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=59b1a644c76ccd2b68eb95d4a7328ba7097deffabeeec35f5df6909d27a3d26a&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Nikil'" \o "Nikil) | [9](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=2c191406947fe6901a6449603d66db07ed2f6dec547b14e1303805a519ae2ea6&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+9" \o "SBI_ParliamentRoad) |  |
| [Dinesh](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=6540fa5b6a2983b6dcef57907d86e8b06706eeedc1b439c8c729ced227e8233f&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Dinesh'" \o "Dinesh) | [10](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=52a1eeaff461f4e36906369abfeb4ec4daf1dc82eaa12cdf267ecd20b6c76bbb&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+10" \o "SBI_ResidencyRoad) |  |
| [Nikil](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_customer&pos=0&sql_signature=59b1a644c76ccd2b68eb95d4a7328ba7097deffabeeec35f5df6909d27a3d26a&sql_query=SELECT+*+FROM+`bank`.`bank_customer`+WHERE+`customer_name`+=+'Nikil'" \o "Nikil) | [11](http://localhost/phpmyadmin/index.php?route=/sql&db=bank&table=bank_account&pos=0&sql_signature=d29c622fc0f6e66804ebd783c07c706583d8683bb03cf8d622f62fb93307ab32&sql_query=SELECT+*+FROM+`bank`.`bank_account`+WHERE+`accno`+=+11" \o "SBI_Jantarmantar) |  |

iii. Find all the customers who have at least two accounts at the *Main* branch

use bank;

select customer\_name from depositor

where acc\_no in (select acc\_no from bank\_account where branch\_name = 'SBI\_RESIDENCYROAD')

group by customer\_name HAVING count(customer\_name) >= 2;

DINESH

select customer\_name from depositor

where acc\_no in (select acc\_no from bank\_account where branch\_name = 'SBI\_PARLIAMENTROAD')

group by customer\_name HAVING count(customer\_name) >= 2

NIKIL

iv. Find all the customers who have an account at *all* the branches located in a

use bank

SELECT distinct S.customer\_name FROM depositor as S

WHERE not exists (

(SELECT branch\_name

FROM branch

WHERE branch\_city = 'DELHI')

EXCEPT

(SELECT R.branch\_name

FROM depositor as T, bank\_account as R

WHERE T.acc\_no = R.acc\_no and

S.customer\_name = T.customer\_name ))

NIKIL

alter table bank\_account

add foreign key(branch\_name) references branch(branch\_name) on delete CASCADE;