

Sql Assessment

```
create database assessment;
```

```
use assessment;
```

```
create table Bank (  
    branch_id int primary key,  
    branch_name varchar(50),  
    branch_city varchar(50)  
);
```

```
INSERT INTO Bank (branch_id, branch_name, branch_city) VALUES  
(1, 'Downtown', 'Mahesana'),  
(2, 'Uptown', 'Ahamdabad Bopal'),  
(3, 'Main Street', 'Ahamdabad Nikol'),  
(4, 'Central', 'Surat');
```

```
create table AccountHolder (  
    account_holder_id int primary key,  
    account_no varchar(20),  
    account_holder_name varchar(100),  
    city varchar(50),  
    contact varchar(15),  
    date_account_created date,  
    account_status varchar(20),  
    account_type varchar(20),  
    balance decimal(10, 2)
```

);

```
INSERT INTO AccountHolder (account_holder_id, account_no, account_holder_name, city,
contact, date_account_created, account_status, account_type, balance) VALUES
```

```
(1, 'A101', 'Hiteshs', 'Mahesana', '1234567890', '2023-06-20', 'Active', 'Savings', 2000.00),
```

```
(2, 'A102', 'Mitesh', 'Ahamdabad Bopal', '9876543210', '2023-06-16', 'Active', 'Savings',
3000.00),
```

```
(3, 'A103', 'Ramesh ', 'Ahamdabad Nikol', '1111111111', '2023-07-25', 'Active', 'Current',
4000.00),
```

```
(4, 'A104', 'Kamlesh', 'Surat', '2222222222', '2023-07-15', 'Terminated', 'Savings', 1000.00);
```

```
create table Loan (
```

```
    loan_no int primary key,
```

```
    branch_id int,
```

```
    account_holder_id int,
```

```
    loan_amount decimal(10, 2),
```

```
    loan_type varchar(50),
```

```
    foreign key (branch_id) references Bank(branch_id)
```

```
);
```

```
INSERT INTO Loan (loan_no, branch_id, account_holder_id, loan_amount, loan_type) VALUES
```

```
(101, 1, 1, 5000.00, 'Personal'),
```

```
(102, 2, 2, 15000.00, 'Home'),
```

```
(103, 3, 3, 10000.00, 'Car'),
```

```
(104, 4, 4, 8000.00, 'Education');
```

● Consider an example where there's an account holder table where we are doing an intra bank transfer i.e. a person holding account A is trying to transfer \$100 to account B.

- for this you have to make a transaction in sql which can transfer fund from account A to B

-Make sure after the transaction the account information have to be updated for both the credit account and the debited account

```
start transaction;
```

```
update AccountHolder
```

```
set balance = balance - 100
```

```
where account_no = 'A101'; -- Debit account A
```

```
update AccountHolder
```

```
SET balance = balance + 100
```

```
where account_no = 'B102'; -- Credit account B
```

```
commit;
```

- Also fetch the details of the account holder who are related from the same city

```
select * from AccountHolder a1
```

```
where exists
```

```
(
```

```
    select 1
```

```
    from AccountHolder a2
```

```
    where a1.city = a2.city
```

```
    and a1.account_holder_id <> a2.account_holder_id
```

```
);
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	account_holder_id	account_no	account_holder_name	city	contact	date_account_created	account_status	account_type	balance
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- Write a query to fetch account number and account holder name, whose accounts were created after 15th of any month

```
select account_no, account_holder_name from AccountHolder
where day(date_account_created) > 15;
```

Result Grid	Filter Rows:
account_no	account_holder_name
A101	Hiteshs
A102	Mitesh
A103	Ramesh

- Write a query to display the city name and count the branches in that city. Give the count of branches an alias name of Count_Branch.

```
select branch_city, COUNT(branch_id) as Count_Branch from Bank
group by branch_city;
```

Result Grid	Filter Rows:
branch_city	Count_Branch
Mahesana	1
Ahamdabad Bopal	1
Ahamdabad Nikol	1
Surat	1

- Write a query to display the account holder's id, account holder's name, branch id, and loan amount for people who have taken loans. (NOTE : use sql join concept to solve the query)

select

a.account_holder_id,

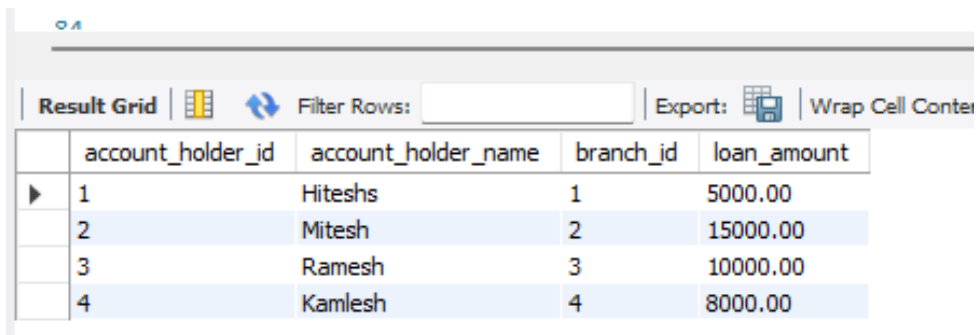
a.account_holder_name,

l.branch_id,

l.loan_amount

from AccountHolder a

inner join Loan l on a.account_holder_id = l.account_holder_id;



	account_holder_id	account_holder_name	branch_id	loan_amount
▶	1	Hiteshs	1	5000.00
	2	Mitesh	2	15000.00
	3	Ramesh	3	10000.00
	4	Kamlesh	4	8000.00