

# Introduction to DBMS

## Assessment

Create DATABASE bank\_db;

```
CREATE TABLE bank (  
    bid int PRIMARY KEY,  
    bname text,  
    bcity text  
);
```

```
CREATE TABLE loan (  
    loan_no int not null,  
    bid int,  
    acc_holder_id int PRIMARY KEY,  
    amount int,  
    type text,  
    FOREIGN KEY(bid) REFERENCES bank(bid)  
);
```

```
CREATE TABLE acc_holder(  
    acc_holder_id int,  
    acc_no int NOT NULL,  
    name text,
```

```
city text,  
contact int,  
acc_created date,  
acc_status varchar(10),  
type text,  
balance int,  
FOREIGN KEY(acc_holder_id) REFERENCES loan(acc_holder_id)  
);
```

```
INSERT INTO bank VALUES(1, 'bodakdev branch','ahmedabad'), (2, 'Surat branch',  
'Surat'), (3, 'Thaltej branch', 'ahmedabad');
```

```
INSERT INTO loan VALUES(1, 1, 1, 12000, 'home loan'), (2, 1, 2, 10000, 'General  
loan'), (3, 2, 3, 15000, 'Student loan');
```

```
INSERT INTO acc_holder VALUES(1, 100, 'saurya', 'ahmedabad', 9898989898,  
'2025-2-27', 'active', 'saving', 5000)
```

```
INSERT INTO acc_holder VALUES (2, 101, 'Krish', 'Surat', 6898989897, '2025-05-  
16', 'active', 'business', 10000)
```

```
INSERT INTO acc_holder VALUES (3, 102, 'Harshil', 'ahmedabad', 6898911111,  
'2025-02-05', 'active', 'business', 12000);
```

1)

```
DELIMITER $$
```

```
CREATE PROCEDURE transfer(rev_acc text, sender_acc text, amt int)
```

```
BEGIN
```

```
UPDATE acc_holder set balance = balance - amt WHERE name =  
sender_acc;
```

```
UPDATE acc_holder set balance = balance + amt WHERE name = rev_acc;  
END;
```

2)

```
DELIMITER $$
```

```
CREATE PROCEDURE find(f_city text)
```

```
BEGIN
```

```
SELECT * FROM acc_holder WHERE city = f_city;
```

```
END;
```

3)

```
SELECT acc_no, name FROM acc_holder WHERE EXTRACT(DAY FROM  
acc_created) > 15;
```

acc_no	name
100	saurya
101	Krish

4)

```
SELECT bcity, count(bcity) as Count_branch FROM bank GROUP BY bcity;
```

bcity	Count_branch
ahmedabad	2
Surat	1

5)

```
SELECT acc_holder.acc_holder_id, acc_holder.name, loan.bid, loan.amount FROM  
acc_holder JOIN loan on acc_holder.acc_holder_id = loan.acc_holder_id;
```

acc_holder_id	name	bid	amount
1	saurya	1	12000
2	Krish	1	10000
3	Harshil	2	15000