Dbms assessment

```sql
create database acc;

use acc;

create table  Bank (
    branch_id int primary key,
    branch_name varchar(100),
    branch_city varchar(100)
);

INSERT INTO Bank (branch_id, branch_name, branch_city) VALUES
(1, 'Main Branch', 'New York'),
(2, 'Downtown Branch', 'New York'),
(3, 'Uptown Branch', 'Chicago'),
(4, 'Suburb Branch', 'Los Angeles');

select * from bank;
```

branch_id	branch_name	branch_city
1	Main Branch	New York
2	Downtown Branch	New York
3	Uptown Branch	Chicago
4	Suburb Branch	Los Angeles
NULL	NULL	NULL

```sql
create table AccountHolder (
    account_holder_id int primary key,
    account_no int,
    account_holder_name varchar(100),
    city varchar(100),
    contact varchar(15),
    date_account_created date,
    account_status varchar(10),
    account_type varchar(50),
    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, 1001, 'John Doe', 'New York', '123-456-7890', '2023-01-10', 'active', 'savings', 5000.00),
(2, 1002, 'Jane Smith', 'New York', '234-567-8901', '2023-01-20', 'active', 'checking', 3000.00),
(3, 1003, 'Alice Johnson', 'Chicago', '345-678-9012', '2023-02-16', 'active', 'savings', 7000.00),
(4, 1004, 'Bob Brown', 'Los Angeles', '456-789-0123', '2023-03-18', 'terminated', 'savings', 2000.00),
(5, 1005, 'Charlie Davis', 'Los Angeles', '567-890-1234', '2023-02-28', 'active', 'checking', 4000.00);

select * from accountholder;
```

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
1	1001	John Doe	New York	123-456-7890	2023-01-10	active	savings	5000.00
2	1002	Jane Smith	New York	234-567-8901	2023-01-20	active	checking	3000.00
3	1003	Alice Johnson	Chicago	345-678-9012	2023-02-16	active	savings	7000.00
4	1004	Bob Brown	Los Angeles	456-789-0123	2023-03-18	terminated	savings	2000.00
5	1005	Charlie Davis	Los Angeles	567-890-1234	2023-02-28	active	checking	4000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```sql
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),
    FOREIGN KEY (account_holder_id) REFERENCES AccountHolder(account_holder_id)
);

INSERT INTO Loan (loan_no, branch_id, account_holder_id, loan_amount, loan_type) VALUES
(101, 1, 1, 10000.00, 'personal'),
(102, 2, 2, 15000.00, 'home'),
(103, 3, 3, 20000.00, 'auto'),
(104, 4, 5, 25000.00, 'education');

select * from loan;
```

Result Grid | Filter Rows: | Edit:

loan_no	branch_id	account_holder_id	loan_amount	loan_type
101	1	1	10000.00	personal
102	2	2	15000.00	home
103	3	3	20000.00	auto
104	4	5	25000.00	education
NULL	NULL	NULL	NULL	NULL

```
74  create table viewtable
75  (name varchar(20),amount varchar(20));
76
77  delimiter //
78  create trigger newbackup
79  after insert
80  on accountholder
81  for each row
82  begin
83  insert into viewtable(name,amount) values
84  (NEW.account_holder_name,"Transaction done!");
85  end//
86  delimiter ;
87
88  insert into viewtable(name,amount) values ('John Doe',"Transaction done!"),('Jane Smith',"Transaction done!");
89
90  select * from viewtable;
```

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

name	amount
John Doe	Transaction done!
Jane Smith	Transaction done!

```sql
show variables like 'sql_safe_updates';

set SQL_SAFE_UPDATES = 0;

start transaction;

update AccountHolder
set balance = balance - 100
where account_no = 1001;

update AccountHolder
set balance = balance + 100
where account_no = 1002;
select * from accountholder;
```

```sql
select * from accountholder;

SET SQL_SAFE_UPDATES = 1;
```

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
1	1001	John Doe	New York	123-456-7890	2023-01-10	active	savings	4900.00
2	1002	Jane Smith	New York	234-567-8901	2023-01-20	active	checking	3100.00
3	1003	Alice Johnson	Chicago	345-678-9012	2023-02-16	active	savings	7000.00
4	1004	Bob Brown	Los Angeles	456-789-0123	2023-03-18	terminated	savings	2000.00
5	1005	Charlie Davis	Los Angeles	567-890-1234	2023-02-28	active	checking	4000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```sql
select * from accountholder
where city = 'New york' or city = 'Los Angeles';
```

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
1	1001	John Doe	New York	123-456-7890	2023-01-10	active	savings	4900.00
2	1002	Jane Smith	New York	234-567-8901	2023-01-20	active	checking	3100.00
4	1004	Bob Brown	Los Angeles	456-789-0123	2023-03-18	terminated	savings	2000.00
5	1005	Charlie Davis	Los Angeles	567-890-1234	2023-02-28	active	checking	4000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```sql
select account_holder_name,date_account_created from accountholder where date_account_created > '2023-02-15';
```

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

account_holder_name	date_account_created
Alice Johnson	2023-02-16
Bob Brown	2023-03-18
Charlie Davis	2023-02-28

```sql
select branch_city, count(*) as Count_Branch
from bank
group by branch_city;
```

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

branch_city	Count_Branch
New York	2
Chicago	1
Los Angeles	1

```sql
select AccountHolder.account_holder_id,AccountHolder.account_holder_name,Loan.branch_id,Loan.loan_amount
from AccountHolder
join Loan
on AccountHolder.account_holder_id = Loan.account_holder_id;
```

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

account_holder_id	account_holder_name	branch_id	loan_amount
1	John Doe	1	10000.00
2	Jane Smith	2	15000.00
3	Alice Johnson	3	20000.00
5	Charlie Davis	4	25000.00