DBMS ASSIGNMENT – 3
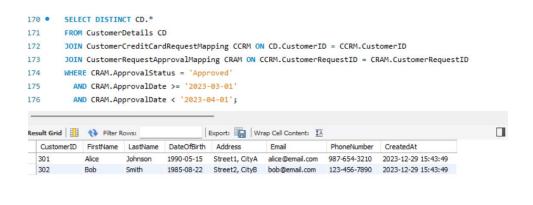
a) List all the Customer whose credit card transaction was approved for the month of March 2023

```
170 •   SELECT DISTINCT CD.*
171     FROM CustomerDetails CD
172     JOIN CustomerCreditCardRequestMapping CCRM ON CD.CustomerID = CCRM.CustomerID
173     JOIN CustomerRequestApprovalMapping CRAM ON CCRM.CustomerRequestID = CRAM.CustomerRequestID
174     WHERE CRAM.ApprovalStatus = 'Approved'
175       AND CRAM.ApprovalDate >= '2023-03-01'
176       AND CRAM.ApprovalDate < '2023-04-01';
```

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

CustomerID	FirstName	LastName	DateOfBirth	Address	Email	PhoneNumber	CreatedAt
301	Alice	Johnson	1990-05-15	Street1, CityA	alice@email.com	987-654-3210	2023-12-29 15:43:49
302	Bob	Smith	1985-08-22	Street2, CityB	bob@email.com	123-456-7890	2023-12-29 15:43:49

b) Create a report of the transaction done by a particular customer from March 2023 to June 2023 with the bank details and credit card details

```
CREATE TABLE Transaction (
    TransactionID INT PRIMARY KEY,
    CreditCardID INT,
    TransactionDate DATE NOT NULL,
    Amount DECIMAL(15, 2) NOT NULL,
    MerchantName VARCHAR(255) NOT NULL,
    TransactionStatus VARCHAR(20) NOT NULL,
    CreatedAt TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (CreditCardID) REFERENCES CreditCardDetails(CreditCardID)
);
```

```
SELECT
    T.TransactionID,
    T.TransactionDate,
    T.Amount,
    T.MerchantName,
    T.TransactionStatus,
    B.BankName,
    B.Location AS BankLocation,
    CC.CardNumber,
    CC.CardHolderName
FROM
    CustomerDetails CD
INNER JOIN
    CustomerCreditCardRequestMapping CCRM ON CD.CustomerID = CCRM.CustomerID
INNER JOIN
    CustomerRequestApprovalMapping CRAM ON CCRM.CustomerRequestID = CRAM.CustomerRequestID
```

```
215    INNER JOIN
216        CustomerRequestApprovalMapping CRAM ON CCRM.CustomerRequestID = CRAM.CustomerRequestID
217    INNER JOIN
218        BankCreditCardMapping BCM ON CCRM.BankCreditID = BCM.BankCreditID
219    INNER JOIN
220        CreditCardDetails CC ON BCM.CreditCardID = CC.CreditCardID
221    INNER JOIN
222        Bank B ON BCM.BankID = B.BankID
223    LEFT JOIN
224        Transaction T ON CC.CreditCardID = T.CreditCardID
225    WHERE
226        CRAM.ApprovalStatus = 'Approved'
227        AND CRAM.ApprovalDate BETWEEN '2023-03-01' AND '2023-06-30'
228        AND CD.CustomerID = 301;
229
230
```

```
225    WHERE
226        CRAM.ApprovalStatus = 'Approved'
227        AND CRAM.ApprovalDate BETWEEN '2023-03-01' AND '2023-06-30'
228        AND CD.CustomerID = 301;
229
230
```

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

TransactionID	TransactionDate	Amount	MerchantName	TransactionStatus	BankName	BankLocation	CardNumber	CardHolde
1001	2023-03-01	150.00	Online Store A	Completed	ABC Bank	CityA	1111222233334444	John Doe
1003	2023-03-10	200.00	Restaurant C	Completed	ABC Bank	CityA	1111222233334444	John Doe
1005	2023-04-02	100.50	Grocery Store E	Completed	ABC Bank	CityA	1111222233334444	John Doe
1007	2023-06-20	75.00	Clothing Store G	Completed	ABC Bank	CityA	1111222233334444	John Doe