

Bank Database – JOIN Queries

1. Display branch ID, name, and the name of the employee who manages it.

```
SELECT b.branch_id, b.address, e.name AS manager_name
FROM Branch b
INNER JOIN Employee e
ON b.branch_id = e.branch_id
WHERE e.position = 'Manager';
```

	branch_id	address	manager_name
1	1	Cairo Main Branch	Ali

2. Display branch names and the accounts opened under each.

```
SELECT b.address AS branch_name,
       a.account_num,
       a.account_type,
       a.balance
FROM Branch b
INNER JOIN Employee e ON b.branch_id = e.branch_id
INNER JOIN Emp_Cust ec ON e.emp_id = ec.emp_id
INNER JOIN Account a ON ec.customer_id = a.customer_id;
```

	branch_name	account_num	account_type	balance
1	Cairo Main Branch	401	Saving	2000.00

3. Display full customer details along with their loans.

```
SELECT c.*, l.loan_id, l.type, l.amount, l.issue_date
FROM Customer c
INNER JOIN Loans l ON c.customer_id = l.customer_id;
```

customer_id	name	address	phone_num	date_of_birth	loan_id	type	amount	issue_date
201	Ahmed	Seeb	91234567	1998-05-12	301	Personal	5000.00	2025-12-22

4. Display loan records where the loan office is in 'Alexandria' or 'Giza'.

```

55
56 SELECT l.*
57 FROM Loans l
58 JOIN Branch b
59     ON l.branch_id = b.branch_id
60 WHERE b.address IN ('Alexandria', 'Giza');
61

```

100 % 6 0

Results Messages

loan_id	type	amount	issue_date	customer_id	emp_id	branch_id
---------	------	--------	------------	-------------	--------	-----------

5. Display account data where the type starts with "S" (e.g., "Savings").

```

63
64 SELECT *
65 FROM Account
66 WHERE account_type LIKE 'S%';
67
68
69
70
71

```

100 % 2 0 Ln: 63, Ch: 1

Results Messages

	account_num	balance	account_type	duration	customer_id	status
1	401	2000.00	Saving	12	201	Open
2	402	12000.00	Saving	12	203	NULL

6. List customers with accounts having balances between 20,000 and 50,000.

```
68  -----6. List customers with accounts having balances betw
69  SELECT DISTINCT c.customer_id, c.name
70  FROM Customer c
71  JOIN Account a
72  ON c.customer_id = a.customer_id
73  WHERE a.balance BETWEEN 20000 AND 50000;
74
```

100 % 2 0

Results Messages

customer_id	name
-------------	------

7. Retrieve customer names who borrowed more than 100,000 LE from 'Cairo Main Branch'.

```
89
90
91  SELECT c.name AS CustomerName
92  FROM Customer c
93  JOIN Loans l ON c.customer_id = l.customer_id
94  JOIN Employee e ON l.emp_id = e.emp_id
95  JOIN Branch b ON e.branch_id = b.branch_id
96  WHERE l.amount > 100000
97  AND b.name = 'Cairo Main Branch';
98
99  8. Find all customers assisted by employee "Amira Khaled"
```

100 % 6 0

Results Messages

CustomerName

8. Find all customers assisted by employee "Amira Khaled".

```
99      9. Find all customers assisted by employee Am
100      SELECT DISTINCT c.name
101      FROM Customer c
102      JOIN Emp_Cust ec ON c.customer_id = ec.customer_id
103      JOIN Employee e ON ec.emp_id = e.emp_id
104      WHERE e.name = 'Amira Khaled';
105
```

100 % 6 0

Results Messages

name

9. Display each customer's name and the accounts they hold, sorted by account type.

```
106      -----9. Display each customer's name and the accounts they hold, sorted by ac
107      SELECT c.name AS CustomerName, a.account_num, a.account_type
108      FROM Customer c
109      JOIN Account a ON c.customer_id = a.customer_id
110      ORDER BY c.name, a.account_type;
111
```

100 % 6 0

Results Messages

	CustomerName	account_num	account_type
1	Ahmed	401	Saving
2	Yahya Alofi	402	Saving

10. For each loan issued in Cairo, show loan ID, customer name, employee handling it, and branch name.

```

112
113 SELECT
114     l.loan_id,
115     c.name AS CustomerName,
116     e.name AS EmployeeName,
117     b.name AS BranchName
118 FROM Loans l
119 JOIN Customer c ON l.customer_id = c.customer_id
120 JOIN Employee e ON l.emp_id = e.emp_id
121 JOIN Branch b ON e.branch_id = b.branch_id
122 WHERE b.name LIKE '%Cairo%';
123

```

100 % 6 0

Results Messages

	loan_id	CustomerName	EmployeeName	BranchName
1	301	Ahmed	Ali	Cairo Main Branch

11. Display all employees who manage any branch.

```

123
124 -----11. Display all employees who manage any branch-----
125 SELECT e.emp_id, e.name, e.position, e.branch_id
126 FROM Employee e
127 WHERE e.position = 'Manager';
128

```

100 % 6 0

Results Messages

	emp_id	name	position	branch_id
1	101	Ali	Manager	1

12. Display all customers and their transactions, even if some customers have no transactions yet.

```

130
131 SELECT
132     c.name AS CustomerName,
133     a.account_num,
134     t.transaction_id,
135     t.amount,
136     t.transaction_type,
137     t.date AS TransactionDate
138 FROM Customer c
139 LEFT JOIN Account a ON c.customer_id = a.customer_id
140 LEFT JOIN Transactions t ON a.account_num = t.account_num
141 ORDER BY c.name, t.date;
142

```

100 %



6



0



Results

Messages

	CustomerName	account_num	transaction_id	amount	transaction_type	TransactionDate
1	Ahmed	401	501	500.00	Deposit	2025-12-22
2	Fatma	NULL	NULL	NULL	NULL	NULL
3	New Customer	NULL	NULL	NULL	NULL	NULL
4	Yahya Alofi	402	NULL	NULL	NULL	NULL