-- CLIENT RELATED QUERIES

-- Retrieve all clients with their account details (Simple Join)

SELECT

C.ClientID,

C.first_name,

C.last_name,

A.AccountNumber,

A.AccountType,

A.Balance,

A.Status

FROM

CLIENT C

JOIN

ACCOUNT A ON C.ClientID = A.ClientID;

	ClientID	first_name	last_name	AccountNumb	AccountType	Balance	Status
	1	Rohan	Verma	ACC1001	Savings	15000.5	Active
	1	Rohan	Verma	ACC1002	Current	50000	Active
	1	Rohan	Verma	ACC1052	Fixed Deposit	800000	Active
	2	Priya	Reddy	ACC1003	Savings	25000.8	Active
	2	Priya	Reddy	ACC1053	Savings	76000.2	Active
	3	Vikram	Joshi	ACC1004	Fixed Deposit	100000	Active
	3	Vikram	Joshi	ACC1054	Current	99000	Active
	4	Ananya	lyer	ACC1005	Savings	30000.2	Active
	4	Ananya	lyer	ACC1055	Savings	72000.5	Active
	5	Rahul	Malhotra	ACC1006	Current	75000	Active
	5	Rahul	Malhotra	ACC1056	Fixed Deposit	900000	Closed
	6	Sneha	Chopra	ACC1007	Savings	45000.5	Active
	6	Sneha	Chopra	ACC1057	Savings	77000.8	Active
	7	Karan	Srivastava	ACC1008	Fixed Deposit	200000	Active
_	7	Karan	Srivastava	ACC1058	Current	100000	Active
	8	Meera	Rao	ACC1009	Savings	60000.8	Active
	8	Meera	Rao	ACC1059	Savings	79000.2	Active
_	9	Rajesh	Thakur	ACC1010	Current	90000	Susp
	9	Rajesh	Thakur	ACC1060	Fixed Deposit	950000	Active
_	10	Pooja	Bose	ACC1011	Savings	35000.2	Active
	10	Pooja	Bose	ACC1061	Savings	81000.5	Active
	11	Amit	Nair	ACC1012	Fixed Deposit	150000	Active
	11	Amit	Nair	ACC1062	Current	105000	Active
	12	Neha	Deshmukh	ACC1013	Savings	50000.5	Active
	12	Neha	Deshmukh	ACC1063	Savings	83000.8	Active
	13	Suresh	Menon	ACC1014	Current	80000	Active
	13	Suresh	Menon	ACC1064	Fixed Deposit		Active
	14	Anjali	Kapoor	ACC1015	Savings	40000.8	Active
	14	Anjali	Kapoor	ACC1065	Savings	85000.2	Active
	15	Vivek	Sinha	ACC1016	Fixed Deposit	300000	Active
	15	Vivek	Sinha	ACC1066	Current	110000	Active
	16	Kavita	Rangana		Savings	55000.2	Closed
	16	Kavita	Rangana	ACC1067	Savings	87000.5	Active
	17	Ravi	lyengar	ACC1018	Current	70000	Active
	17	Ravi	lyengar	ACC1068	Fixed Deposit	1050000	Active
	18	Shilpa	Bhatia	ACC1019	Savings	48000.5	Active
	18	Shilpa	Bhatia	ACC1069	Savings	89000.8	Active
	19	Nitin	Choudhary	ACC1020	Fixed Deposit	250000	Active
_	19	Nitin	Choudhary		Current	115000	Active
	20	Divya	Srinivasan	ACC1021	Savings	32000.8	Active
_	21	Arun	Dubey	ACC1022	Current	85000	Active
	22	Sunita	Mehra	ACC1023	Savings	60000.2	Active
	23	Rajiv	Bajaj	ACC1024	Fixed Deposit	400000	Active
	24	Anita	Seth	ACC1025	Savings	70000.5	Susp
	25	Manoj	Gandhi	ACC1026	Current	95000	Active
_	26	Preeti	Khanna	ACC1027	Savings	38000.8	Active
_	27	Sanjay	Dutta	ACC1028	Fixed Deposit	500000	Active
	28	Ritu	Malik	ACC1029	Savings	42000.2	Active
	29	Vijay	Saxena	ACC1030	Current	65000	Active
	30	Kiran	Rastogi	ACC1031	Savings	53000.5	Active
	31	Anil	Chauhan	ACC1032	Fixed Deposit	350000	Active
	32	Poonam	Bansal	ACC1033	Savings	47000.8	Active
	33	Rakesh	Agarwal	ACC1034	Current	78000	Active

-- Count the number of accounts for each client (Aggregate with GROUP BY)

SELECT

C.ClientID,

C.first_name,

C.last_name,

COUNT(A.AccountNumber) AS NumberOfAccounts

FROM

CLIENT C

LEFT JOIN

ACCOUNT A ON C.ClientID = A.ClientID

GROUP BY

C.ClientID, C.first_name, C.last_name;

ClientID	first_name	last_name	NumberOfAccou
1	Rohan	Verma	3
2	Priya	Reddy	2
3	Vikram	Joshi	2
4	Ananya	lyer	2
5	Rahul	Malhotra	2
6	Sneha	Chopra	2
7	Karan	Srivastava	2
8	Meera	Rao	2
9	Rajesh	Thakur	2
10	Pooia	Bose	2
11	Amit	Nair	2
12	Neha	Deshmukh	2
13	Suresh	Menon	2
14	Anjali	Kapoor	2
15	Vivek	Sinha	2
16	Kavita	Rangana	_
17	Ravi	lyengar	2
18	Shilpa	Bhatia	2
19	Nitin	Choudhary	_
20	Divya	Srinivasan	1
21	Arun	Dubey	1
22	Sunita	Mehra	1
23	Rajiv	Bajaj	1
24	Anita	Seth	1
25	Manoj	Gandhi	1
26	Preeti	Khanna	1
27	Sanjay	Dutta	1
28	Ritu	Malik	1
29	Vijay	Saxena	1
30	Kiran	Rastogi	1
31	Anil	Chauhan	1
32	Poonam	Bansal	1
33	Rakesh	Agarwal	1
34	Sarita	Gupta	1
35	Alok	Mishra	1
36	Mala	Tiwari	1
37	Ramesh	Shukla	1
38	Geeta	Yadav	1
39	Vinod	Pandey	1
40	Lata	Rathore	1
41	Harish	Soni	1
42	Asha	Meena	1
43	Dinesh	Rajput	1
44	Rekha	Solanki	1
45	Mohan	Gaur	1
46	Suman	Purohit	1
47	Rajendra	Bhardwaj	2
48	Usha	Kulkarni	2
49	Prakash	Naik	0

```
-- Find clients who have not taken any loans (Subquery with NOT IN)
SELECT
C.ClientID,
C.first_name,
C.last_name
FROM
CLIENT C
WHERE
C.ClientID NOT IN (
SELECT
LH.ClientID
FROM
LOAN_HOLDER LH );
```

ClientID	first_name	last_name
1	Rohan	Verma
2	Priya	Reddy
4	Ananya	lyer
6	Sneha	Chopra
10	Pooja	Bose
14	Anjali	Kapoor
16	Kavita	Ranganathan
20	Divya	Srinivasan
21	Arun	Dubey
25	Manoj	Gandhi
26	Preeti	Khanna
27	Sanjay	Dutta
31	Anil	Chauhan
32	Poonam	Bansal
34	Sarita	Gupta
35	Alok	Mishra
38	Geeta	Yadav
39	Vinod	Pandey
40	Lata	Rathore
43	Dinesh	Rajput
44	Rekha	Solanki
46	Suman	Purohit
47	Rajendra	Bhardwaj
48	Usha	Kulkarni
NULL	NULL	NULL

```
-- Retrieve clients who have both a savings account and a loan (Complex Join with Subquery)
SELECT
  C.ClientID,
  C.first_name,
  C.last_name
FROM
  CLIENT C
WHERE
  C.ClientID IN (
    SELECT
      A.ClientID
    FROM
      ACCOUNT A
    WHERE
      A.AccountType = 'Savings'
  )
AND
  C.ClientID IN (
    SELECT
      LH.ClientID
    FROM
      LOAN_HOLDER LH
  );
```

ClientID	first_name	last_name
8	Meera	Rao
12	Neha	Deshmukh
18	Shilpa	Bhatia
22	Sunita	Mehra
24	Anita	Seth
28	Ritu	Malik
30	Kiran	Rastogi
36	Mala	Tiwari
42	Asha	Meena
NULL	NULL	NULL

-- ACCOUNT RELATED QUERIES

--. Find the total number of active, closed, and suspended accounts (Aggregate with GROUP BY)

SELECT

Status.

COUNT(AccountNumber) AS NumberOfAccounts

FROM

ACCOUNT

GROUP BY

Status;

	Sta	tus	NumberOfAccou
	Act	ive	64
1	Sus	spended	3
	Clo	sed	3

-- Count the total number of accounts in the bank

SELECT

COUNT(AccountNumber) AS TotalAccount

FROM

ACCOUNT;



-- list of all accounts

SELECT

- a.AccountNumber,
- a.AccountType,
- a.status,
- a.CreatedAt AS Date_of_Creation,
- CONCAT(s.first_name, '', s.last_name, '(ID: ', s.StaffID, ')') AS Created_by,
- CONCAT(c.first_name, ' ', c.last_name, '(ID: ',c.ClientID, ')') AS Owner

FROM

ACCOUNT a

JOIN

STAFF s ON a.CreatedBy = s.StaffID

JOIN

CLIENT c ON a.ClientID = c.ClientID;

AccountNumb	AccountType	status	Date_of_Creation	Created_by	Owner
ACC1001	Savings	Active	2019-01-01 00:00:00	Aditi Patel(ID: 2)	Rohan Verma(ID: 1)
ACC1002	Current	Active	2019-02-15 00:00:00	Bhavya Kumar(ID: 4)	Rohan Verma(ID: 1)
ACC1052	Fixed Deposit	Active	2023-04-22 00:00:00	Vidya Srinivasan(ID: 29)	Rohan Verma(ID: 1)
ACC1003	Savings	Active	2019-03-10 00:00:00	Divya Joshi(ID: 7)	Priya Reddy(ID: 2)
ACC1053	Savings	Active	2023-05-05 00:00:00	Aditi Patel(ID: 2)	Priya Reddy(ID: 2)
ACC1004	Fixed Deposit	Active	2019-04-20 00:00:00	Ishaan Reddy(ID: 9)	Vikram Joshi(ID: 3)
ACC1054	Current	Active	2023-06-18 00:00:00	Bhavya Kumar(ID: 4)	Vikram Joshi(ID: 3)
ACC1005	Savings	Active	2019-05-05 00:00:00	Kavita Thakur(ID: 12)	Ananya lyer(ID: 4)
ACC1055	Savings	Active	2023-07-22 00:00:00	Divya Joshi(ID: 7)	Ananya lyer(ID: 4)
ACC1006	Current	Active	2019-06-18 00:00:00	Manish Srivastava(ID: 14)	Rahul Malhotra(ID: 5)
ACC1056	Fixed Deposit	Closed	2023-08-30 00:00:00	Ishaan Reddy(ID: 9)	Rahul Malhotra(ID: 5)
ACC1007	Savings	Active	2019-07-22 00:00:00	Naveen Mishra(ID: 16)	Sneha Chopra(ID: 6)
ACC1057	Savings	Active	2023-09-12 00:00:00	Kavita Thakur(ID: 12)	Sneha Chopra(ID: 6)
ACC1008	Fixed Deposit	Active	2019-08-30 00:00:00	Prashant Sinha(ID: 19)	Karan Srivastava(ID
ACC1058	Current	Active	2023-10-25 00:00:00	Manish Srivastava(ID: 14)	Karan Srivastava(ID
ACC1009	Savings	Active	2019-09-12 00:00:00	Riya Choudhary(ID: 21)	Meera Rao(ID: 8)
ACC1059	Savings	Active	2023-11-08 00:00:00	Naveen Mishra(ID: 16)	Meera Rao(ID: 8)
ACC1010	Current	Sus	2019-10-25 00:00:00	Sanya Nair(ID: 23)	Rajesh Thakur(ID: 9)
ACC1060	Fixed Deposit	Active	2023-12-20 00:00:00	Prashant Sinha(ID: 19)	Rajesh Thakur(ID: 9)
ACC1011	Savings	Active	2019-11-08 00:00:00	Sneha Ranganathan(ID:	Pooja Bose(ID: 10)
ACC1061	Savings	Active	2024-01-15 00:00:00	Riya Choudhary(ID: 21)	Pooja Bose(ID: 10)
ACC1012	Fixed Deposit	Active	2019-12-20 00:00:00	Tanvi Menon(ID: 27)	Amit Nair(ID: 11)
ACC1062	Current	Active	2024-02-28 00:00:00	Sanya Nair(ID: 23)	Amit Nair(ID: 11)
ACC1013	Savings	Active	2020-01-15 00:00:00	Vidya Srinivasan(ID: 29)	Neha Deshmukh(ID:
ACC1063	Savings	Active	2024-03-10 00:00:00	Sneha Ranganathan(ID:	Neha Deshmukh(ID:
ACC1014	Current	Active	2020-02-28 00:00:00	Aditi Patel(ID: 2)	Suresh Menon(ID: 13)
ACC1064	Fixed Deposit	Active	2024-04-22 00:00:00	Tanvi Menon(ID: 27)	Suresh Menon(ID: 13)
ACC1015	Savings	Active	2020-03-10 00:00:00	Bhavya Kumar(ID: 4)	Anjali Kapoor(ID: 14)
ACC1065	Savings	Active	2024-05-05 00:00:00	Vidya Srinivasan(ID: 29)	Anjali Kapoor(ID: 14)
ACC1016	Fixed Deposit	Active	2020-04-22 00:00:00	Divya Joshi(ID: 7)	Vivek Sinha(ID: 15)
ACC1066	Current	Active	2024-06-18 00:00:00	Aditi Patel(ID: 2)	Vivek Sinha(ID: 15)
ACC1017	Savings	Closed	2020-05-05 00:00:00	Ishaan Reddy(ID: 9)	Kavita Ranganathan
ACC1067	Savings	Active	2024-07-22 00:00:00	Bhavya Kumar(ID: 4)	Kavita Ranganathan
ACC1018	Current	Active	2020-06-18 00:00:00	Kavita Thakur(ID: 12)	Ravi lyengar(ID: 17)
ACC1068	Fixed Deposit	Active	2024-08-30 00:00:00	Divya Joshi(ID: 7)	Ravi lyengar(ID: 17)
ACC1019	Savings	Active	2020-07-22 00:00:00	Manish Srivastava(ID: 14)	Shilpa Bhatia(ID: 18)
ACC1069	Savings	Active	2024-09-12 00:00:00	Ishaan Reddy(ID: 9)	Shilpa Bhatia(ID: 18)
ACC1020	Fixed Deposit	Active	2020-08-30 00:00:00	Naveen Mishra(ID: 16)	Nitin Choudhary(ID:
ACC1070	Current	Active	2024-10-25 00:00:00	Kavita Thakur(ID: 12)	Nitin Choudhary(ID:
ACC1021	Savings	Active	2020-09-12 00:00:00	Prashant Sinha(ID: 19)	Divya Srinivasan(ID:
ACC1022	Current	Active	2020-10-25 00:00:00	Riya Choudhary(ID: 21)	Arun Dubey(ID: 21)
ACC1023	Savings	Active	2020-11-08 00:00:00	Sanya Nair(ID: 23)	Sunita Mehra(ID: 22)
ACC1024	Fixed Deposit	Active	2020-12-20 00:00:00	Sneha Ranganathan(ID:	Rajiv Bajaj(ID: 23)
ACC1025	Savings	Sus	2021-01-15 00:00:00	Tanvi Menon(ID: 27)	Anita Seth(ID: 24)
ACC1026	Current	Active	2021-02-28 00:00:00	Vidya Srinivasan(ID: 29)	Manoj Gandhi(ID: 25)
ACC1027	Savings	Active	2021-03-10 00:00:00	Aditi Patel(ID: 2)	Preeti Khanna(ID: 26)
ACC1028	Fixed Deposit	Active	2021-04-22 00:00:00	Bhavya Kumar(ID: 4)	Sanjay Dutta(ID: 27)
ACC1029	Savings	Active	2021-05-05 00:00:00	Divya Joshi(ID: 7)	Ritu Malik(ID: 28)
ACC1030	Current	Active	2021-06-18 00:00:00	Ishaan Reddy(ID: 9)	Vijay Saxena(ID: 29)
ACC1031	Savings	Active	2021-07-22 00:00:00	Kavita Thakur(ID: 12)	Kiran Rastogi(ID: 30)
ACC1032	Fixed Deposit	Active	2021-08-30 00:00:00	Manish Srivastava(ID: 14)	Anil Chauhan(ID: 31)
ACC1033	Savings	Active	2021-09-12 00:00:00	Naveen Mishra(ID: 16)	Poonam Bansal(ID:

-- TRANSACTIONS RELATED QUERIES

-- Retrieve all transactions for a specific account (Filtered Join)

SELECT

T.TransactionID,

T.TransactionType,

T.Amount,

T.DateTime,

T.SourceAccount,

T.DestinationAccount

FROM

TRANSACTION T

JOIN

ACCOUNT A ON T.SourceAccount = A.AccountNumber

WHERE

A.AccountNumber = 'ACC1001'; -- Replace with actual account number

TransactionID	TransactionType	Amount	DateTime	SourceAccount	DestinationAcco
TXN1001	Deposit		2023-10-01 09:00:00		NULL
TXN1002	Withdrawal	2000	2023-10-01 10:15:00	ACC1001	NULL
TXN1003	Transfer	3000	2023-10-01 11:30:00	ACC1001	ACC1002

-- Find the total number of transactions per account (Aggregate with GROUP BY and JOIN) SELECT

A.AccountNumber,

COUNT(T.TransactionID) AS NumberOfTransactions

FROM

ACCOUNT A

LEFT JOIN

TRANSACTION T ON A.AccountNumber = T.SourceAccount

GROUP BY

A.AccountNumber;

AccountNumb	NumberOfTransactio
Accountivation	Number of Hansactio
ACC1001	3
ACC1002	3
ACC1052	0
ACC1003	3
ACC1053	0
ACC1004	3
ACC1054	0
ACC1005	3
ACC1055	0
ACC1006	3
ACC1056	0
ACC1007	3
ACC1057	0
ACC1008	3
ACC1058	0
ACC1009	3
ACC1059	0
ACC1010	3
ACC1060	0
ACC1011	3
ACC1061	0
ACC1012	3
ACC1062	0
ACC1013	3
ACC1063	0
ACC1014	3
ACC1064	0
ACC1015	3
ACC1065	0
ACC1016	3
ACC1066	0
ACC1017	3
ACC1067	0
ACC1018	3
ACC1068	0
ACC1019	3
ACC1069	0
ACC1020	3
ACC1070	0
ACC1021	3
ACC1022	3
ACC1023	3
ACC1024	3
ACC1025	3
ACC1026	3
ACC1027	2
ACC1028	0
ACC1029	0
ACC1030	0
ACC1031	0
ACC1032	0
ACC1033	0
ACC1034	0

-- past transactions by a client

SELECT

T.TransactionID,

T.TransactionType,

T.Amount,

T.DateTime.

T.SourceAccount,

T.DestinationAccount

FROM

TRANSACTION T

JOIN

ACCOUNT A ON (T.SourceAccount = A.AccountNumber OR T.DestinationAccount =

A.AccountNumber)

WHERE

A.ClientID = 1

ORDER BY

T.DateTime DESC;

TransactionID	TransactionType	Amount	DateTime	SourceAccount	DestinationAcco
TXN1006	Transfer	7000	2023-10-01 15:15:00	ACC1002	ACC1003
TXN1005	Withdrawal	5000	2023-10-01 14:00:00	ACC1002	NULL
TXN1004	Deposit	10000	2023-10-01 12:45:00	ACC1002	NULL
TXN1003	Transfer	3000	2023-10-01 11:30:00	ACC1001	ACC1002
TXN1003	Transfer	3000	2023-10-01 11:30:00	ACC1001	ACC1002
TXN1002	Withdrawal	2000	2023-10-01 10:15:00	ACC1001	NULL
TXN1001	Deposit	5000	2023-10-01 09:00:00	ACC1001	NULL

-- LOAN RELATED QUERIES

-- Find clients who have taken loans and their loan details (Join with multiple tables) SELECT

C.ClientID,

C.first_name,

C.last name,

L.LoanNumber,

L.Amount,

L.LoanType,

L.LoanStatus

FROM

CLIENT C

JOIN

LOAN_HOLDER LH ON C.ClientID = LH.ClientID

JOIN

LOAN L ON LH.LoanNumber = L.LoanNumber;

ClientID	first_name	last_name	LoanNumber	Amount	LoanType	LoanStatus
3	Vikram	Joshi	LN021	2900000	Agriculture Loan	Cleared
5	Rahul	Malhotra	LN006	7500000	Business Loan	Active
7	Karan	Srivastava	LN003	1800000	Education Loan	Active
8	Meera	Rao	LN012	450000	Gold Loan	Active
9	Rajesh	Thakur	LN023	1300000	Car Loan	Active
11	Amit	Nair	LN025	1050000	Personal Loan	Active
12	Neha	Deshmukh	LN001	4500000	Home Loan	Active
13	Suresh	Menon	LN014	2700000	Agriculture Loan	Active
15	Vivek	Sinha	LN007	2500000	Agriculture Loan	Cleared
17	Ravi	lyengar	LN020	8200000	Business Loan	Active
18	Shilpa	Bhatia	LN004	900000	Personal Loan	Active
19	Nitin	Choudhary	LN009	1400000	Car Loan	Active
22	Sunita	Mehra	LN019	400000	Gold Loan	Cleared
23	Rajiv	Bajaj	LN002	1200000	Car Loan	Cleared
24	Anita	Seth	LN016	1100000	Car Loan	Cleared
28	Ritu	Malik	LN024	1900000	Education Loan	Cleared
29	Vijay	Saxena	LN013	9400000	Business Loan	Cleared
30	Kiran	Rastogi	LN005	300000	Gold Loan	Cleared
33	Rakesh	Agarwal	LN010	600000	Education Loan	Cleared
36	Mala	Tiwari	LN018	960000	Personal Loan	Cleared
37	Ramesh	Shukla	LN015	5100000	Home Loan	Active
41	Harish	Soni	LN017	1750000	Education Loan	Active
42	Asha	Meena	LN008	4800000	Home Loan	Cleared
45	Mohan	Gaur	LN022	4700000	Home Loan	Active
49	Prakash	Naik	LN011	850000	Personal Loan	Active

-- Find the average loan amount for each loan type (Aggregate with GROUP BY) SELECT

LoanType,

AVG(Amount) AS AverageLoanAmount

FROM

LOAN

GROUP BY

LoanType;

LoanType	AverageLoanAmount
Agriculture Loan	2700000
Business Loan	8366666.66666667
Car Loan	1250000
Education Loan	1512500
Gold Loan	383333.3333333333
Home Loan	4775000
Personal Loan	940000

-- Retrieve the total amount of payments made for each loan (Aggregate with GROUP BY and JOIN)

SELECT

L.LoanNumber,

SUM(LP.PaidAmount) AS TotalPaidAmount

FROM

LOAN L

JOIN

LOANPAYMENT LP ON L.LoanNumber = LP.LoanNumber

GROUP BY

L.LoanNumber;

LoanNumber	TotalPaidAmount
LN001	4500000
LN002	1200000
LN003	900000
LN004	600000
LN005	300000
LN006	5000000
LN007	2500000
LN008	4800000
LN009	700000
LN010	600000
LN011	500000
LN012	250000
LN013	9400000
LN014	1000000
LN015	3100000
LN016	1100000
LN017	1500000
LN018	960000
LN019	400000
LN020	6200000
LN021	2900000
LN022	2700000
LN023	900000
LN024	1700000
LN025	1050000

-- loans taken by a client

SELECT

L.LoanNumber, L.Amount, L.LoanType, L.LoanStatus

FROM

LOAN L

INNER JOIN

LOAN_HOLDER LH ON L.LoanNumber = LH.LoanNumber

WHERE

LH.ClientID = 12;

LoanNumber	Amount	LoanType	LoanStatus
LN001	4500000	Home Loan	Active

-- STAFF RELATED QUERIES

-- Retrieve the total amount of loans approved by each staff member (Aggregate with GROUP BY and JOIN)

SELECT

S.StaffID,

S.first_name,

S.last_name,

SUM(L.Amount) AS TotalLoansApproved

FROM

STAFF S

JOIN

LOAN_HOLDER LH ON S.StaffID = LH.StaffID

JOIN

LOAN L ON LH.LoanNumber = L.LoanNumber

GROUP BY

S.StaffID, S.first_name, S.last_name;

StaffID	first_name	last_name	TotalLoansApprov
1	Aarav	Sharma	450000
2	Aditi	Patel	2850000
3	Arjun	Singh	2500000
4	Bhavya	Kumar	1400000
5	Chetan	Gupta	4900000
6	Deepika	Mehta	3200000
7	Divya	Joshi	1100000
8	Gaurav	Malhotra	4800000
9	Ishaan	Reddy	850000
10	Jaya	Verma	1200000
11	Karan	Chopra	2700000
12	Kavita	Thakur	900000
13	Lakshmi	Rao	1750000
14	Manish	Srivastava	600000
15	Meera	Yadav	1300000
16	Naveen	Mishra	5100000
18	Pooja	Shah	8200000
19	Prashant	Sinha	1900000
20	Rahul	Bose	7500000
21	Riya	Choudhary	960000
22	Rohan	Kapoor	9400000
23	Sanya	Nair	4700000

⁻⁻ Retrieve the staff member who has approved the most loans (Subquery with ORDER BY and LIMIT)

SELECT

S.StaffID,

S.first_name,

S.last_name,

COUNT(LH.LoanNumber) AS NumberOfLoansApproved

FROM

STAFF S

JOIN

LOAN_HOLDER LH ON S.StaffID = LH.StaffID

GROUP BY

S.StaffID, S.first_name, S.last_name

ORDER BY

NumberOfLoansApproved DESC

LIMIT 1;

StaffID	first_name	last_name	NumberOfLoansApprov
2	Aditi	Patel	2

-- list of all accounts created by a staff member

SELECT

A.AccountNumber,

A.AccountType,

A.Balance,

A.ClientID,

A.CreatedAt,

CONCAT(S.first_name, ' ', S.last_name, '(ID: ', s.StaffID, ')') AS Staff_Name_and_ID

FROM

ACCOUNT A

JOIN

STAFF S ON A.CreatedBy = S.StaffID

WHERE

A.CreatedBy = 2; -- Replace 5 with the desired Staff ID

AccountNumb	AccountType	Balance	ClientID	CreatedAt	Staff_Name_and
ACC1001	Savings	15000.5	1	2019-01-01 00:00:00	Aditi Patel(ID: 2)
ACC1014	Current	80000	13	2020-02-28 00:00:00	Aditi Patel(ID: 2)
ACC1027	Savings	38000.8	26	2021-03-10 00:00:00	Aditi Patel(ID: 2)
ACC1040	Fixed Deposit	550000	39	2022-04-22 00:00:00	Aditi Patel(ID: 2)
ACC1053	Savings	76000.2	2	2023-05-05 00:00:00	Aditi Patel(ID: 2)
ACC1066	Current	110000	15	2024-06-18 00:00:00	Aditi Patel(ID: 2)

-- list of all staff members with their position

SELECT

StaffID,

CONCAT(first_name, ' ', last_name) AS Name,

Email

Role

FROM STAFF;

StaffID	Name	Email	Role
1	Aarav Sharma	aarav.sharma@example.com	Manager
2	Aditi Patel	aditi.patel@example.com	Clerk
3	Arjun Singh	arjun.singh@example.com	Teller
4	Bhavya Kumar	bhavya.kumar@example.com	Clerk
5	Chetan Gupta	chetan.gupta@example.com	Teller
6	Deepika Mehta	deepika.mehta@example.com	Manager
7	Divya Joshi	divya.joshi@example.com	Clerk
8	Gaurav Malhotra	gaurav.malhotra@example.com	Teller
9	Ishaan Reddy	ishaan.reddy@example.com	Clerk
10	Jaya Verma	jaya.verma@example.com	Teller
11	Karan Chopra	karan.chopra@example.com	Manager
12	Kavita Thakur	kavita.thakur@example.com	Clerk
13	Lakshmi Rao	lakshmi.rao@example.com	Teller
14	Manish Srivast	manish.srivastava@example.c	Clerk
15	Meera Yadav	meera.yadav@example.com	Teller
16	Naveen Mishra	naveen.mishra@example.com	Clerk
17	Neha Desai	neha.desai@example.com	Teller
18	Pooja Shah	pooja.shah@example.com	Manager
19	Prashant Sinha	prashant.sinha@example.com	Clerk
20	Rahul Bose	rahul.bose@example.com	Teller
21	Riya Choudhary	riya.choudhary@example.com	Clerk
22	Rohan Kapoor	rohan.kapoor@example.com	Teller
23	Sanya Nair	sanya.nair@example.com	Clerk
24	Shivam Dubey	shivam.dubey@example.com	Manager
25	Sneha Rangan	sneha.ranganathan@example	Clerk
26	Suresh lyengar	suresh.iyengar@example.com	Teller
27	Tanvi Menon	tanvi.menon@example.com	Clerk
28	Varun Bhatia	varun.bhatia@example.com	Teller
29	Vidya Srinivasan	vidya.srinivasan@example.com	Clerk
30	Yash Raj	yash.raj@example.com	Manager