

SMART ATM SIMULATOR AND BANK MANAGEMENT

DBMS PROJECT REPORT:

Meera Reji-PES1UG22CS342

Megha Jyothsna Sathian-PES1UG22CS345

Meghana Aithal-PES1UG22CS346

SQL TABLES:

USER_INFO:

user_id	first_name	middle_name	last_name	user_name	password		date_of_birth	city	state	pincode	address	phone_number	access_type	user_status	email	account_id	atm_pin
					balance												
6	h	l	s	hls	pkdef2:sha256:1000000\$BwqLAgwGL2L3s\$900F9aBc48b8b6fca9d6d958db3cd0ca74d07d59bdc9c1fb8204e77e4d	0.00	2003-11-12	blr	kar	560098	blr	9878987678	Customer	ACTIVE	harinib1803@gmail.com	NBSYBGM70R3	NULL
7	j	l	s	jls	pkdef2:sha256:1000000\$Wp1lgHbVLV4mWujs\$e7Wbaadcf6aa3bf57c8bdc67c95a1904d113e5d20edbc3dbce5f02c2773f6b892	0.00	2003-11-08	blr	kar	560087	blr	9090878656	Admin	ACTIVE	jls@gmail.com	NULL	NULL
8	k	l	s	kls	pkdef2:sha256:1000000\$Qp0h0Ia3Hziat3s167b62c044a4e86193bd2342758bdc919c5c3d8f214484285fedb1dc8a9a4d	0.00	2004-11-04	blr	kar	560098	blr	9856456786	Admin	ACTIVE	kls@gmail.com	NULL	NULL
9	j		e	joey	pkdef2:sha256:1000000\$quouV4eUeLA59u2152b0478c680899f653726dee418090835e5c87062ba85f754075530c909f2d376	0.00	2007-11-13	blr	kar	679008	blr	9878976545	Admin	ACTIVE	joe@gmail.com	NULL	NULL
10	m	l	s	mls	pkdef2:sha256:1000000\$wJ8F0p06v18H6ZT66681725c522434346ad18aef4e3400d61369b05c8c4770b09f5ca0d31633	0.00	2000-06-06	blr	kar	7890043	blr	9890764903	Customer	ACTIVE	mls@gmail.com	70VPK7P0C57H	script:3
68:8:15f1CCGMwz245cns1s48cfe68d2466f2cf58aef39bc6a0f2a46e96332085f992e6e81977ccdc25149470b1492d66fc9581940eb1328e38b9a70bca11a7e151b4c40a16ac47ab45c																	
11	b	l	s	bls	pkdef2:sha256:1000000\$B3w5Gz3zn3v9e59f43a968d152f67715ba30b30b807c9c360c9c42bc7d6f98f69032ffe26f9de8a	0.00	2013-11-05	blr	kar	560098	blr	8654098324	Customer	ACTIVE	varshajshere@gmail.com	5KPUQ687TJ0	NULL
12	g	h	j	ghj	pkdef2:sha256:1000000\$yvWmq21VwEzXTf0c9f4661b3c8b70b36925ca4939da9ba26c55880502bb51ad8ed9933b711d386	0.00	2005-11-09	blr	kar	7890854	blr	8945378907	Customer	ACTIVE	ghj@gmail.com	7DAUWM92BL1V	NULL
13	h	j	k	hjk	pkdef2:sha256:1000000\$y57Sew1dca250M5ff82db7b41d4f8789562bc02c56818070c46f07a4d7f6a22e7bd16a9457b0e00	0.00	2024-11-06	blr	kar	789085	blr	7890856989	Customer	ACTIVE	hjk@gmail.com	QT280901EQML	script:3
68:8:15W9EOLeLo1lg6tpk3Sadcc2c90b17db07a3e07cb112124c294004074a8ca4e7f7d9a54a37844cf390771a5b07f8b4ac7f5bd96cc42665a6703afa7ec48fe7f8f0b8a80c8e707451																	
14	b	n	m	bnm	pkdef2:sha256:1000000\$F06aCfWbN7WQu0sf7835766a55b8ae6e4e30ed4b8a7162d34daae6c8bcb88c73d7e0f3eab0693	0.00	2000-11-06	blr	kar	789088	blr	9342356765	Customer	ACTIVE	brn@gmail.com	RQ8H8W05WBHT	script:3
68:8:15FzC2cM05M4T0g2a569e5d9c90fa72137da4709cc86a544c2354686c18156ab827c720c70b04bc6f81e9c2a8a9a263d32f3cab5c2c5c604e454bd7187d3806ca29d1b21eaa82cf																	
15	k	l	o	klo	pkdef2:sha256:1000000\$00MG0300CNaeNCSd1de7fe9a0cfc347699f76b18e9c18ad3e81e0b188ad61b50fcd8d20204c1e9	0.00	2024-11-07	blr	kar	560098	blr	8750470908	Customer	ACTIVE	klo@gmail.com	K1PSSJ38FL40	script:3
68:8:15myca1Vj3w0zWAsc378c70ba2904a7263d11d0f7c625f94f9912f999f4ef34b27f92cf78ce880be42e228083130f2938a2c7607835f54c70bdc3e920f75b38c2ba8cb34ad783eecd																	
16	m	e	z	wer	pkdef2:sha256:1000000\$9p0Lr24Fw5uL581776c2406f0c0a255c4e0409ff473f40c3a726e2020b76e08e6c504e976dc8	0.00	2000-11-07	blr	kar	987767	blr	9870765078	Customer	ACTIVE	wer@gmail.com	Z3TFPP80M2NS	script:3
68:8:15wREEDP10z7Tzw00404049a45ae70b6f5e66dd6b1ca1714f4146daef3754506027c44c7e7c21947c03c4f05040cc2b27a88812a1641a08f6815932a1a970c3c512bab043b																	
17	q	e		qwe	pkdef2:sha256:1000000\$115rcWb2IGcfm0z8j08930c1c49021402a1098c0b30ea32864670d6f70e7e5846c4e083986f79c	0.00	2024-11-07	blr	kar	560089	blr	9876543456	Customer	ACTIVE	qwe@gmail.com	50WPS01UQE	script:3
68:8:159eAXRaARMj0BegaF943c10b36666ba438a1364efc22f6f97c73c5d04872a40e94d1204014670c79448a457080601cha7855e0897a1d966606330ca9a6c28a2a6a957e2ae91c0																	
18	f	g	h	fgh	pkdef2:sha256:1000000\$5c3VY70455a9r0d0b26c3b70bca270b106e661509817626a5680452a15a5f5fca48930c7a5603	0.00	2024-11-14	blr	kar	560090	blr	9845678345	Customer	ACTIVE	fgh@gmail.com	H03ZQ80QF3	script:3
68:8:15m5Tg0KcFmb2Mj3c1832e948cfa81e5e947c9f38a940b085f909c59a87ab6b3c14f71aa9e9a0447ebecdc972c50a1aaa336a0bd03ed659345e0a3583b320b7f08012f3ca4																	
19	s	d	f	sdf	pkdef2:sha256:1000000\$0a9qWtL6nL9xwm05834456803955f751c470c93d88170e2c9241b0044ccc5214756a2c96f332329	0.00	2024-11-08	n	n	8900009	b	987657896	Customer	ACTIVE	sdf@gmail.com	AR0G05SMGWSQ	script:3
68:8:15XvQm53TV8bW8t21b3f2c99271a9630b367aa838a8342cf080bf54a77f3396ef1c49f4e4d2c6a0b39f40672a804d5c88d1ccce508408a7Aae70a474c257852c9ceef280baad4ae																	

TRANSACTIONS:

```
mysql> SELECT * from TRANSACTIONS;
```

id	user_id	transaction_type	amount	timestamp
1	10	deposit	5000.00	2024-11-12 06:23:39
2	10	withdraw	500.00	2024-11-12 06:25:18
3	10	Pay EMI	4280.37	2024-11-13 07:10:37
4	10	close_deposit	52500.00	2024-11-13 22:15:21
5	10	withdraw	5000.00	2024-11-13 22:43:01
6	10	withdraw	44444.00	2024-11-13 22:44:15
7	13	deposit	50000.00	2024-11-13 22:58:31
8	14	deposit	30000.00	2024-11-14 11:08:55
9	15	deposit	30000.00	2024-11-14 11:52:22
10	16	deposit	30000.00	2024-11-14 11:57:30
11	17	deposit	30000.00	2024-11-14 13:27:17
12	18	deposit	30000.00	2024-11-19 11:54:14
13	19	deposit	30000.00	2024-11-19 11:57:45

```
13 rows in set (0.00 sec)
```

ACCOUNTS:

```
mysql> SELECT * from ACCOUNTS;
```

user_id	account_id	type_of_account	final_amount	created_at	modified
6	N8SXBGMT07RJ	savings	0.00	2024-11-14 14:13:18	2024-11-14 14:13:18
10	2QIBEB0GU4PK	deposit	52500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
10	70VPM7P0C57H	savings	0.00	2024-11-14 14:13:18	2024-11-14 14:13:18
10	VUTIPUZJ68BG	deposit	52500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
11	5KPUQ6G87IIO	savings	0.00	2024-11-14 14:13:18	2024-11-14 14:13:18
12	7DAUKM028L1V	savings	0.00	2024-11-14 14:13:18	2024-11-14 14:13:18
13	HRHK1UASER06	deposit	52500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
13	QT28090IEQK1	savings	0.00	2024-11-14 14:13:18	2024-11-14 14:13:18
14	31WE2D0JVVMZ	deposit	31500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
14	RQBHBM05W8KT	savings	61500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
15	KIPSSJ3RFL40	savings	61500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
15	RLBVA104QEKE	deposit	31500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
16	39VEQXRND81U	deposit	31500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
16	FE019JWVSHSI	deposit	135801.60	2024-11-14 14:13:18	2024-11-14 14:13:18
16	Z3TFPP50WJNS	savings	197301.60	2024-11-14 14:13:18	2024-11-14 14:13:18
17	5DNPRS0IU3QE	savings	61500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
17	TSHPBEEH6GPH	deposit	31500.00	2024-11-14 14:13:18	2024-11-14 14:13:18
18	HWD3ZQS80QF3	savings	61500.00	2024-11-19 11:53:22	2024-11-19 11:54:21
18	OGN5KVUS4LVB	deposit	31500.00	2024-11-19 11:53:50	2024-11-19 11:53:50
19	AROGU0SNGW5Q	savings	61500.00	2024-11-19 11:56:58	2024-11-19 11:58:21
19	H0276K0R2YMW	deposit	31500.00	2024-11-19 11:57:15	2024-11-19 11:57:15

```
21 rows in set (0.00 sec)
```

DEPOSIT:

```
mysql> SELECT * from DEPOSIT;
```

deposit_ID	account_id	final_amount	interest_rate	principal_amount	tenure	created_at	modified_at	user_id	status
1	2QIBEB0GU4PK	52500.00	5.00	50000.00	12	2024-11-12 12:42:31	2024-11-13 22:15:22	10	closed
2	VUTIPUZJ68BG	52500.00	5.00	50000.00	12	2024-11-13 22:45:06	2024-11-13 22:45:45	10	closed
3	HRHK1UASER06	52500.00	5.00	50000.00	12	2024-11-13 23:00:03	2024-11-13 23:02:10	13	closed
4	31WE2D0JVVMZ	31500.00	5.00	30000.00	12	2024-11-14 11:08:18	2024-11-14 11:09:03	14	closed
5	RLBVA104QEKE	31500.00	5.00	30000.00	12	2024-11-14 11:51:36	2024-11-14 11:52:29	15	closed
6	39VEQXRND81U	31500.00	5.00	30000.00	12	2024-11-14 11:58:22	2024-11-14 11:58:26	16	closed
7	FE019JWVSHSI	135801.60	10.00	123456.00	12	2024-11-14 12:27:59	2024-11-14 12:28:10	16	closed
8	TSHPBEEH6GPH	31500.00	5.00	30000.00	12	2024-11-14 13:26:56	2024-11-14 13:27:23	17	closed
9	OGN5KVUS4LVB	31500.00	5.00	30000.00	12	2024-11-19 11:53:50	2024-11-19 11:54:22	18	closed
10	H0276K0R2YMW	31500.00	5.00	30000.00	12	2024-11-19 11:57:15	2024-11-19 11:58:22	19	closed

```
10 rows in set (0.01 sec)
```

LOANS:

loan_id	description	interest_rate	created_at	modified_at	loan_amount	user_id	tenure	status	tracking_id	documents
1	NULL	2.00	2024-11-02 14:53:39	2024-11-03 13:40:43	5000.00	560037	5	REJECTED	NULL	NULL
2	NULL	3.00	2024-11-02 14:55:14	2024-11-03 13:40:44	5000.00	320007	10	REJECTED	NULL	NULL
3	NULL	2.00	2024-11-03 08:07:02	2024-11-03 13:40:48	5000.00	45009	3	REJECTED	L0023299	NULL
4	NULL	2.00	2024-11-03 10:35:43	2024-11-03 10:35:43	5000.00	4500034	5	PENDING	N0756890	uploads/-5000-3.pptx
5	NULL	4.00	2024-11-03 10:59:00	2024-11-03 10:59:00	50000.00	6700032	5	PENDING	00082019	uploads/1-Basics of Probability.pdf
6	NULL	5.00	2024-11-03 11:37:31	2024-11-03 11:37:31	400000.00	450003	10	PENDING	T0189483	uploads/1-Hierarchical vs. nonhierarchical clustering, Agglomerative and divisive clustering.pdf
7	NULL	5.00	2024-11-03 11:40:18	2024-11-03 11:40:18	500000.00	3400005	5	PENDING	M0922560	uploads/2-Bayes Optimal Classifier and Gibbs Algorithm.pdf
8	NULL	10.00	2024-11-03 11:45:09	2024-11-03 11:45:09	300000.00	4500090	4	PENDING	Z0688023	uploads/2_K-means clustering_Bisecting K-means, K-Means as special case of Expectation Maximization.pdf
9	NULL	5.00	2024-11-03 11:59:05	2024-11-03 11:59:05	400000.00	5600095	10	PENDING	B0196707	uploads/2_MAP and ML Hypothesis.pdf
10	NULL	6.00	2024-11-03 12:16:43	2024-11-03 12:16:43	50000.00	7890	12	PENDING	DC143127	uploads/4-Naive Bayes Classifier.pdf
11	NULL	5.00	2024-11-03 15:10:27	2024-11-03 15:10:27	50000.00	3	5	PENDING	c12a5238-e	uploads/3_PCA with example.pdf
12	NULL	5.00	2024-11-03 16:13:36	2024-11-03 16:13:36	50000.00	3	5	PENDING	2549a2ef-2	uploads/3_PCA with example.pdf
13	NULL	5.00	2024-11-03 16:20:17	2024-11-03 16:20:17	40000.00	3	5	PENDING	1a425a8d-c	uploads/4-Naive Bayes Classifier.pdf
14	NULL	5.00	2024-11-03 16:26:06	2024-11-03 16:26:06	40000.00	3	5	PENDING	7d4e21a2-2	uploads/4-Naive Bayes Classifier.pdf
15	NULL	5.00	2024-11-03 16:32:16	2024-11-03 16:32:16	500000.00	3	4	PENDING	b062dd00-1	uploads/1-Basics of Probability.pdf
16	NULL	4.00	2024-11-03 16:36:03	2024-11-03 16:36:03	50000.00	3	5	PENDING	fdd0b0bf-2	uploads/1-Basics of Probability.pdf
17	NULL	5.00	2024-11-04 02:36:09	2024-11-10 10:00:10	50000.00	3	5	APPROVED	f1e88f58-d	uploads/2_K-means clustering_Bisecting K-means, K-Means as special case of Expectation Maximization.pdf
18	NULL	5.00	2024-11-13 12:37:09	2024-11-13 12:40:37	50000.00	10	12	APPROVED	3a232a9b-a	C:\DEMS\DEMSProject\uploads\56fd7578-b_1-Basics of Probability.pdf
4200.37		41439.26								

JOIN:

SQL Query:

```
-- Insert account data if it does not already exist in the accounts table
INSERT INTO accounts (user_id, account_id, type_of_account, final_amount)
SELECT
    ui.user_id,
    ui.account_id,
    'savings' AS type_of_account,
    ui.balance AS final_amount
FROM user_info ui
LEFT JOIN accounts a ON a.user_id = ui.user_id AND a.account_id = ui.account_id
WHERE a.account_id IS NULL -- Only insert if account does not exist
AND ui.account_id IS NOT NULL -- Ensure account_id is not NULL

UNION ALL

SELECT
    d.user_id,
    d.account_id,
    'deposit' AS type_of_account,
    d.final_amount AS final_amount
FROM deposit d
LEFT JOIN accounts a ON a.user_id = d.user_id AND a.account_id = d.account_id
WHERE a.account_id IS NULL -- Only insert if account does not exist
AND d.account_id IS NOT NULL; -- Ensure account_id is not NULL
```

TRIGGERS

```
CREATE TRIGGER after_deposit_close
AFTER UPDATE ON deposit
FOR EACH ROW
BEGIN
```

```

IF NEW.status = 'closed' AND OLD.status != 'closed' THEN
    -- Insert a new transaction for moving the amount to savings
    INSERT INTO transactions (user_id, transaction_type, amount)
    VALUES (NEW.user_id, 'close_deposit', NEW.final_amount);

    -- Update the user's balance
    UPDATE user_info
    SET balance = balance + NEW.final_amount
    WHERE user_id = NEW.user_id;
END IF;
END;
//

```

DELIMITER ;

PURPOSE:

The `after_deposit_close` trigger automates actions when a deposit account is updated to "closed." It records a transaction in the `transactions` table to document the closure and adds the deposit amount to the user's balance in the `user_info` table. This ensures accurate financial records and reflects the user's updated balance without manual intervention. The trigger only activates when the status changes to "closed" from a different state, preventing duplicate actions. Overall, it enhances efficiency and user experience in managing deposit accounts.

Before:

The screenshot displays a web application interface for 'Bank Management'. The interface is divided into several sections:

- User Details:** A form showing fields for Address, Date of Birth, Status, and Balance.
- Loan Details:** A table with columns: Loan ID, Loan Amount, Status, Interest Rate, EMI, Amount Due, and Action.
- Transaction History:** A table with columns: Date, Type, and Amount.
- Deposit Details:** A table with columns: Deposit ID, Principal Amount, Interest Rate, Tenure (Months), Final Amount, Created At, and Action.
- Account Summary:** A section with a 'Show Account Summary' button.

At the bottom of the interface, there are three buttons: 'Edit Profile', 'Back to Home', and 'Logout'.

After:

Bank Management

127.0.0.1:5000/account_details/user_id=19

90%

https://drive.google.c...

yolo5 model.ipynb

UE2ZCS352A Machine

Student Resources - G...

ML_Slides_for_student...

Doodle Sketch Strateg...

localhost / 127.0.0.1 / ...

Address: b, n, n, 8900089

Date of Birth: 2024-11-08

Status: active

Balance: \$61500.00

Loan Details

Loan ID	Loan Amount	Status	Interest Rate	EMI	Amount Due	Action
---------	-------------	--------	---------------	-----	------------	--------

Transaction History

Date	Type	Amount
2024-11-19 11:57:45	deposit	\$30000.00

Page 1 of 1

Deposit Details

Deposit ID	Principal Amount	Interest Rate	Tenure (Months)	Final Amount	Created At	Action
10	\$30000.00	5.00%	12	\$31500.00	2024-11-19	Closed

Account Summary

Show Account Summary

Edit Profile

Back to Home

Logout

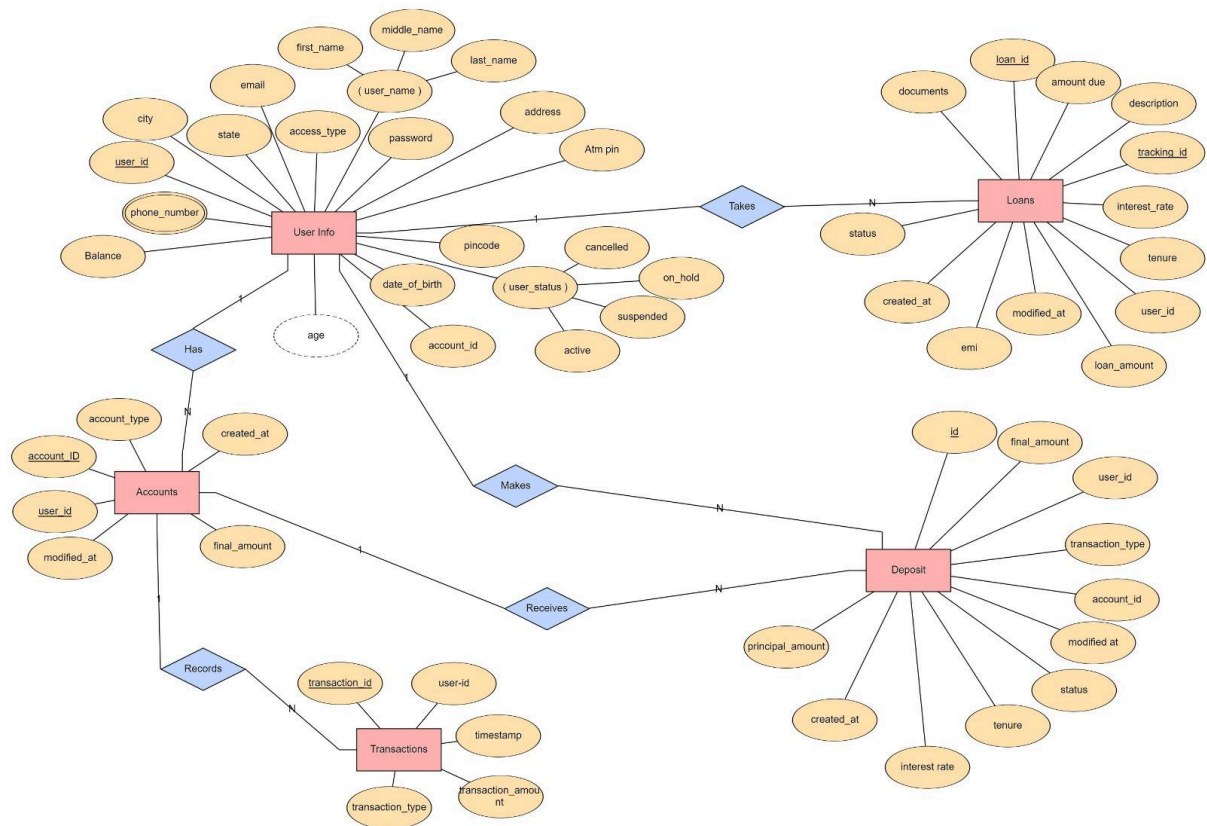
```
mysql> select * from transactions;
```

id	user_id	transaction_type	amount	timestamp
1	10	deposit	5000.00	2024-11-12 06:23:39
2	10	withdraw	500.00	2024-11-12 06:25:18
3	10	Pay EMI	4280.37	2024-11-13 07:10:37
4	10	close_deposit	52500.00	2024-11-13 22:15:21
5	10	withdraw	5000.00	2024-11-13 22:43:01
6	10	withdraw	44444.00	2024-11-13 22:44:15
7	13	deposit	50000.00	2024-11-13 22:58:31
8	14	deposit	30000.00	2024-11-14 11:08:55
9	15	deposit	30000.00	2024-11-14 11:52:22
10	16	deposit	30000.00	2024-11-14 11:57:30
11	17	deposit	30000.00	2024-11-14 13:27:17
12	18	deposit	30000.00	2024-11-19 11:54:14
13	19	deposit	30000.00	2024-11-19 11:57:45

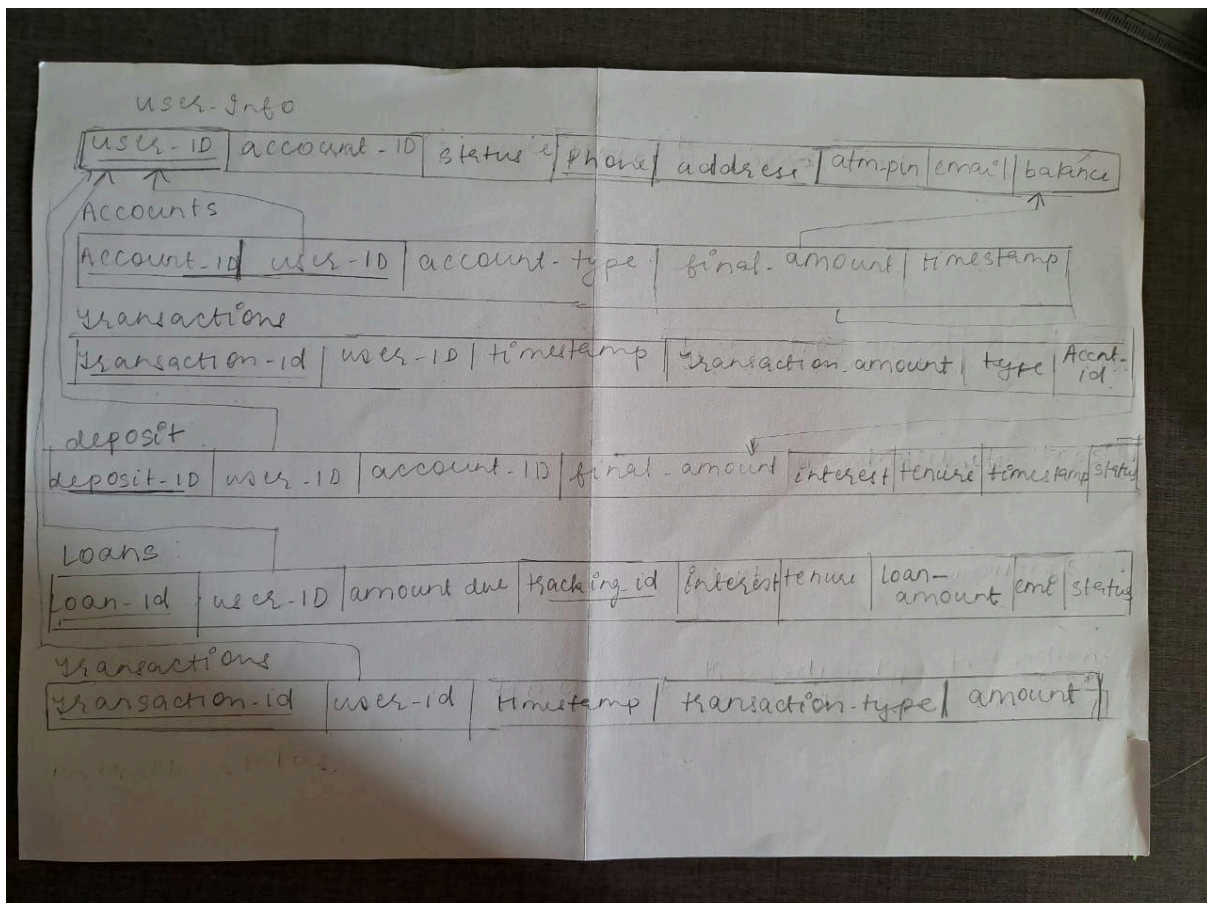
```
13 rows in set (0.00 sec)
```

[illegible]

ER-DIAGRAM



Relational Schema:



STORED PROCEDURE:

```
account_summary = []
if request.method == 'POST':
    try:
        # Call the stored procedure to get the account summary
        result = db.session.execute(
            text("CALL get_account_summary(:user_id)"),
            {'user_id': user_id}
        )
        account_summary = result.fetchall() # Fetch all rows returned by the stored procedure

        # Format account summary for email
        summary_html = "<h3>Account Summary</h3><table border='1'><tr><th>Account ID</th><th>Type of Account</th><th>Final Amount</th></tr>"
        for account in account_summary:
            summary_html += f"<tr><td>{account[1]}</td><td>{account[2]}</td><td>${float(account[3]):.2f}</td></tr>"
        summary_html += "</table>"
```

DELIMITER \$\$

```
CREATE PROCEDURE get_account_summary(IN user_id_param INT)
BEGIN
    SELECT * FROM accounts WHERE user_id = user_id_param;
END $$

DELIMITER ;
```

NESTED, AGGREGATE QUERIES

```
SELECT
```

```
    COALESCE((
```

```
        -- Nested subquery to count the number of approved loans for the user
```

```
        SELECT COUNT(l.loan_id)
```

```
        FROM Loan l
```

```
        WHERE l.user_id = u.user_id AND l.status = 'APPROVED'
```

```
    ), 0) AS approved_loan_count, -- Aggregate function: COUNT
```

```
    COALESCE((
```

```
        -- Nested subquery to sum the amount due for approved loans for the user
```

```
        SELECT SUM(l.amount_due)
```

```
        FROM Loan l
```

```
        WHERE l.user_id = u.user_id AND l.status = 'APPROVED'
```

```
    ), 0) AS total_approved_loan_amount, -- Aggregate function: SUM
```

```
    COALESCE((
```

```
        -- Nested subquery to calculate the average amount due for approved loans for
the user
```

```
        SELECT AVG(l.amount_due)
```


FROM Loan I

WHERE l.user_id = u.user_id AND l.status = 'APPROVED'

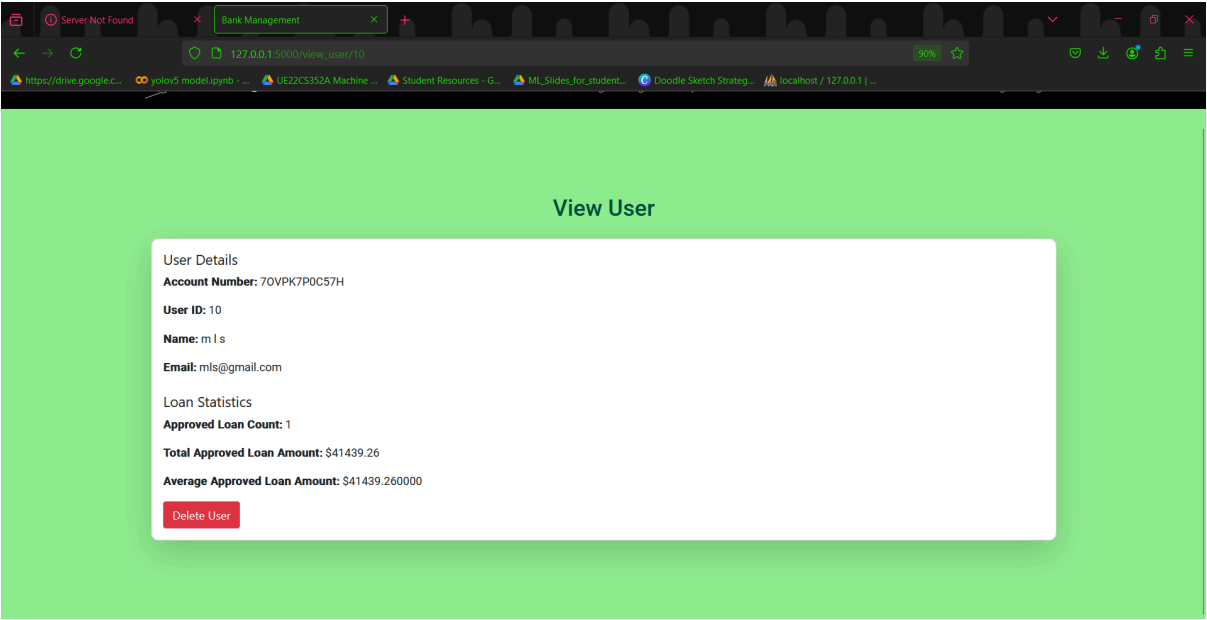
), 0) AS average_loan_amount -- Aggregate function: AVG

FROM

UserInfo u

WHERE

u.user_id = :user_id; -- Filtering for a specific user



```
mysql> select * from loans;
```

loan_id	description	interest_rate	created_at	modified_at	loan_amount	user_id	tenure	status	tracking_id	documents	emi	amount_due
1	NULL	2.00	2024-11-02 14:53:30	2024-11-03 13:40:43	5000.00	560037	5	REJECTED	NULL	NULL	NULL	NULL
2	NULL	3.00	2024-11-02 14:55:14	2024-11-03 13:40:44	5000.00	320007	10	REJECTED	NULL	NULL	NULL	NULL
3	NULL	2.00	2024-11-03 00:00:02	2024-11-03 13:40:40	5000.00	450009	3	REJECTED	L0023299	NULL	NULL	NULL
4	NULL	2.00	2024-11-03 10:35:43	2024-11-03 10:35:43	5000.00	4500034	5	PENDING	NB750890	uploads/-j0Wm-3.ppt	NULL	NULL
5	NULL	4.00	2024-11-03 10:59:00	2024-11-03 10:59:00	50000.00	0700032	5	PENDING	00082819	uploads/1.Basics of Probability.pdf	NULL	NULL
6	NULL	5.00	2024-11-03 11:37:31	2024-11-03 11:37:31	400000.00	450003	10	PENDING	70189403	uploads/1.Hierarchical vs. non-hierarchical clustering, Agglomerative and divisive clustering.pdf	NULL	NULL
7	NULL	5.00	2024-11-03 11:40:18	2024-11-03 11:40:18	500000.00	3490005	5	PENDING	MW922560	uploads/1.Bayes Optimal Classifier and Gibbs Algorithms.pdf	NULL	NULL
8	NULL	10.00	2024-11-03 11:45:09	2024-11-03 11:45:09	300000.00	4500008	4	PENDING	Z0688823	uploads/2.K-means clustering_Bisecting K-means, K-Means as special case of Expectation Maximization.pdf	NULL	NULL
9	NULL	5.00	2024-11-03 11:59:05	2024-11-03 11:59:05	400000.00	5600095	10	PENDING	BM190707	uploads/2_MAP and ML Hypothesis.pdf	NULL	NULL
10	NULL	6.00	2024-11-03 12:16:43	2024-11-03 12:16:43	50000.00	7090	12	PENDING	DC143127	uploads/4.Naive Bayes Classifier.pdf	NULL	NULL
11	NULL	5.00	2024-11-03 15:10:27	2024-11-03 15:10:27	50000.00	3	5	PENDING	c12a6238-e	uploads/3_PCA with example.pdf	NULL	NULL
12	NULL	5.00	2024-11-03 16:11:36	2024-11-03 16:11:36	50000.00	3	5	PENDING	2549a2ef-2	uploads/3_PCA with example.pdf	NULL	NULL
13	NULL	5.00	2024-11-03 16:20:17	2024-11-03 16:20:17	40000.00	3	5	PENDING	1a025a8d-c	uploads/4.Naive Bayes Classifier.pdf	NULL	NULL
14	NULL	5.00	2024-11-03 16:26:06	2024-11-03 16:26:06	40000.00	3	5	PENDING	704e21e2-2	uploads/4.Naive Bayes Classifier.pdf	NULL	NULL
15	NULL	5.00	2024-11-03 16:32:16	2024-11-03 16:32:16	500000.00	3	4	PENDING	b0620d00-1	uploads/1.Basics of Probability.pdf	NULL	NULL
16	NULL	4.00	2024-11-03 16:36:03	2024-11-03 16:36:03	50000.00	3	5	PENDING	fd0900bf-2	uploads/1.Basics of Probability.pdf	NULL	NULL
17	NULL	5.00	2024-11-04 02:36:09	2024-11-10 10:00:10	50000.00	3	5	APPROVED	f1c08458-d	uploads/2.K-means clustering_Bisecting K-means, K-Means as special case of Expectation Maximization.pdf	NULL	NULL
18	NULL	5.00	2024-11-13 12:37:09	2024-11-13 12:40:37	50000.00	10	12	APPROVED	3a232a9b-a	C:\DBMS\OBMSProject\uploads\56fd7579-b_1_Basics of Probability.pdf	4280.37	41439.26

18 rows in set (0.02 sec)

PURPOSE:

The purpose of this SQL query is to retrieve and summarize specific financial information related to a user's approved loans from a database. The query is designed to provide insights into the user's loan status by calculating three key metrics:

Approved Loan Count: The number of loans that have been approved for a specific user. This is useful for understanding how many loans the user has successfully obtained.

Total Approved Loan Amount: The total amount due from all approved loans for the user. This metric helps to assess the overall financial obligation the user has in terms of approved loans.

Average Loan Amount: The average amount due from the approved loans for the user. This provides insight into the typical size of the loans that the user has been granted.