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Topic: NextGen Banking Application

Product Name: NBI

Contribution: Full project

Table name: accounts, transactions, loans

Relation - accounts

Domain

Attribute - account\_number, type, status, balance, user\_id, user\_name, open\_date

Constraint –

Tuple – set of records

Composite Key

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Normalization – integrity(needed), redundancy(not needed)

1NF - Accounts, There is a column named Account\_number so it is called as 1NF

2NF - no partial dependency. Transactions, loans

3NF – no transitive partial dependancy

Accounts(M), transactions(T), loans

Student info – student\_id, name, job\_id, job\_name, native\_place\_id, native\_place

1NF - student\_id can be the primary key. Hence 1NF

2NF – student role table : student\_id , job\_id

Student table : student\_name, student\_id, native\_id, native\_place

Job table : job\_id, job\_name

3NF – no transitive normal form exists

Student roll table : student\_id, job\_id

Student table : student\_id, student\_name, native\_id

Jobs table : job\_id, job\_name

Native table : native\_id, native\_name

**DDL: create, insert, delete,**

CREATE TABLE accounts (

Account\_number INT PRIMARY KEY,

User\_name VARCHAR(100)

);

INSERT INTO accounts (account\_number, user\_name) VALUES

(1, 'Alice'),

(2, 'Bob');

DELETE FROM accounts WHERE account\_number = 1;

DROP TABLE accounts;

**Join**

SELECT

accounts.account\_number,

accounts.user\_name,

transactions.transaction\_id,

transactions.amount

FROM accounts

INNER JOIN transactions ON accounts.account\_number = transactions.account\_number;

DTD

CDATA – character data

PCDATA – parsed character data

**DTD**

<element loginEMPTY>

<!ATTLIST login timeout CDATA “0”>

**XML**

<login timeout = 10/login>

Frontend – HTML, CSS, Tailwind CSS, ReactJS, (android, flutter app development), Flask

Backend – MYSql, Oracle, JSON, (SQLlite, firebase), Mongodb

Language – Python, PHP

Framework – XAMPP

Full stack ai engineer.

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| --- | --- | --- |
| **Module name** | **Sub module name** | **Description** |
| River of Flow | Deposit | Used for adding the money into the account of the user. |

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| --- | --- | --- | --- | --- |
| **Submodule name** | **Form name** | **description** | **Table name** | **Table description** |
| Deposit | Adding - transaction | Used for adding the money into the account of the user. |  |  |