

❖ Tables :-

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1) account :-

```
CREATE TABLE account (  
    account_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    account_type VARCHAR(50) NULL,  
    balance DECIMAL(10,2) NULL,  
    liabilities DECIMAL(10,2) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id)  
);
```

2) budget :-

```
CREATE TABLE budget (  
    budget_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    expense_category VARCHAR(100) NULL,  
    amount DECIMAL(10,2) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id)  
);
```

3) class :-

```
CREATE TABLE class (  
    StudentID INT NOT NULL PRIMARY KEY,  
    Name VARCHAR(50) NOT NULL,  
    RollNo INT NULL  
);
```

4) expense:-

```
CREATE TABLE expense (  
    expense_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    account_id INT NULL,  
    expense_date DATE NULL,  
    expense_category VARCHAR(100) NULL,  
    remark VARCHAR(100) NULL,  
    amount DECIMAL(10,2) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id),  
    FOREIGN KEY (account_id) REFERENCES account(account_id)  
);
```

5) expense_category :-

```
CREATE TABLE expense_category (  
    category_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    category_name VARCHAR(100) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id)  
);
```

6) income :-

```
CREATE TABLE income (  
    income_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    account_id INT NULL,  
    income_date DATE NULL,  
    income_source VARCHAR(100) NULL,  
    amount DECIMAL(10,2) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id),  
    FOREIGN KEY (account_id) REFERENCES account(account_id)  
);
```

7) income_source :-

```
CREATE TABLE income_source (  
    source_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    source_name VARCHAR(100) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id)  
);
```

8) library :-

```
CREATE TABLE library (  
    Rollno INT NOT NULL PRIMARY KEY,  
    Name VARCHAR(50) NULL,  
    StudentID INT NULL,  
    FOREIGN KEY (StudentID) REFERENCES class(StudentID)  
);
```

9) target_amount :-

```
CREATE TABLE target_amount (  
    target_id INT IDENTITY(1,1) PRIMARY KEY,  
    user_id INT NULL,  
    amount DECIMAL(10,2) NULL,  
    FOREIGN KEY (user_id) REFERENCES [user](user_id)  
);
```

10) transaction :-

```
CREATE TABLE transaction (  
    transaction_id INT IDENTITY(1,1) PRIMARY KEY,  
    account_id INT NULL,  
    type VARCHAR(10) NULL,  
    amount DECIMAL(10,2) NULL,  
    statement VARCHAR(255) NULL,  
    time DATETIME NOT NULL DEFAULT GETDATE(),  
    FOREIGN KEY (account_id) REFERENCES account(account_id)  
);
```

11) user:-

```
CREATE TABLE [user] (  
    user_id INT IDENTITY(1,1) PRIMARY KEY,  
    name VARCHAR(100) NULL,  
    username VARCHAR(50) NULL,  
    password VARCHAR(100) NULL,  
    CONSTRAINT unique_username UNIQUE (username)  
);
```