

Practical assignment 1

UPBank Database



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# Diagram Description automatically generatedTask 2

# Task 3

##### owners

|  |
| --- |
| id |

##### ADDRESS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Oid | a\_type | streetNumber | street | suburb | city | postalCode |

##### CONTACTDETAILS

|  |  |  |
| --- | --- | --- |
| Oid | c\_type | identifier |

##### account

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| accountNumber | amount | currency | isSavings | interest\_rate | noticePeriod | isSharia | clientId | ownerBranch | ownedId |

##### transaction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| transactionCode | transactionDate | amount | currency | toAccount | fromAccount |

##### atm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| serialNumber | f\_date | companyCode | cashOnHand | responsibleBranch | ownedId |

##### contracts

|  |  |  |  |
| --- | --- | --- | --- |
| companyCode | start | end | atmSerialNumber |

##### validation

|  |  |  |  |
| --- | --- | --- | --- |
| clientId | v\_type | identifier | document |

##### clients

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| id | prefix | first | middle | last |

##### Branch

|  |  |  |  |
| --- | --- | --- | --- |
| id | open | close | day |

##### owned

|  |
| --- |
| ownedId |

# Text Description automatically generated with medium confidenceTask 5

#### 5.1:

#### A picture containing table Description automatically generated5.2: Before After

Table

Description automatically generated

#### 5.3:

#### Table Description automatically generatedTable Description automatically generated5.4: Before After

#### Table Description automatically generated5.5:

# Task 6

6.1) \select\_{serialNumber like 'ABC123%'} ATM;

6.2) \project\_{companyCode} \select\_{suburb = 'Groenkloof'} (ATM \join\_{responsibleBranch = Oid} ADDRESS);

6.3) \select\_{amountOfTransactions > 24} \rename\_{accountNumber, amountOfTransactions} \aggr\_{accountNumber: count(1)} ACCOUNT \join\_{(accountNumber = toAccount) or (accountNumber = fromAccount)} TRANSACTION;