TASK 11:

CLIENT

Account

BRANCH

MTA

FOREX

CIT

FASK 2:

CLIENT (unique_num, name (f_name, m_name, 1_name), sex,
address (number, street, city), contout_detail, 10 (Birth_Date,
citizen_status, age), address_proof)

ACCOUNT (unique-num, account-type, transfer-method, branch-code)

BRANCH (branch-code, address (number, street, city), trading-hour (duration), contact-detail)

ATM (ATM_code, branch_code, cash_available, filling (date, +ine))

CIT (ATM_code, contract (stort, end))

FOREX (Forex-code, rate-of-exchange)

CHEQUES

TASK 3: blue text is additional comments

CLIENT (unique_num, name (f-name, m-name, 1-name), sex, address (number, street, city), {contout_detail}, ID (Birth-Date,

citizen_status, age) , address_proof)

more than one contact detail

ACCOUNT (unique-num, {account-type}, transfer-method, branch-code)

more than one account-type, eg. 30 -day investment account and cheque acc

BRANCH (branch-code, address (number, street, city), { trading-hour (duration), contact-detail })

can have multiple contact & trading-hour each for Monday to Sunday.

ATM (ATM_code, branch_code, cash_available, filling (date, time)).

con fill the ATM more than once to increase cash.

CIT (ATM_code, {contract (stort, end)})

an ATM can renew their contract if it ends so there will be multivalued.

FOREX (Forex-code, rate-of-exchange)

CHEQUES

TASK 4:

Age : CLIENT

Duration : BRANCH

number of ATM : ATM

TASK 5:

trading-hour : BRANCH

assigned a by null value if the day is a public holiday

La if this is null, the duration (derived value) will just be zero.

cash_available: ATM

b this can be a null value if the ATM is just built and they have not filled it yet so it is assigned a NULL value.

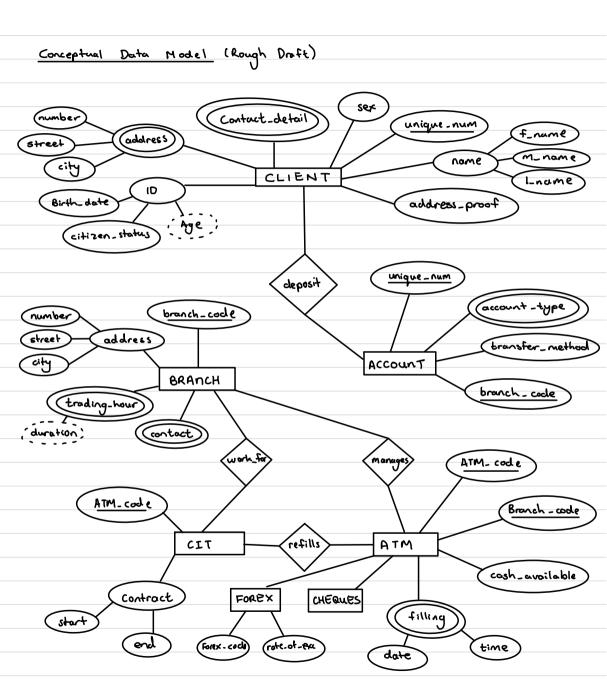
Le if the ATM runs out of cosh it will also be assigned a NULL value.

Le however the ATM (filling) won't be NULL, because they can book a filling date

in advance so this attribute worlt be empty.

M-name : CLIENT

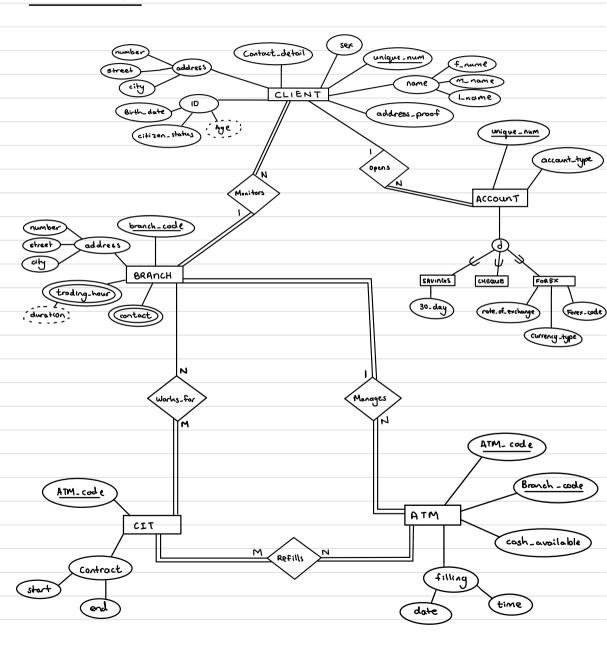
this will be assigned a NULL value if the client does not have a middle name.



FA5K 6:

- 6.1) NO, we need to create a new entity called SAVINGS, which stores multiple account that the client opens, e.g. 30-day saving account. This will inherit from the Account entity.
- 6.2) No, we will need to add an attribute called "currency-type" into the FOREX entity. This will display the different currency that the client used.
- 6.3) Yes, in the entities BRANCH it caters for multivalued contact details, so the client or branch can add in phone number, email, instagram handle , etc.
- 6.4) Yes, there is a derived attribute called 'Age' and it is used to check if the client can open a student account (no fee) if they have no reached graduating age. Otherwise, they can approace it to a cheque or credit account when they graduatle or employed.

FASK 7:



#Due to no space, the datatype for each attribute will be written underneath each attribute(limit)

CLIENT

