



Sri Lanka Institute of Information Technology

**Database Management Systems for Security -
IE2024**

Year 2, Semester 1

Lab Submission 01

IT22151056

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Group – WD.CS 01.02

Activity 01

1) 8 entities

- Bank
- Branch
- Account
- Customer
- Transaction
- Account type
- Current account
- Saving account

2) No

- Branch
- Weak entities depend on strong entities and they cannot exist without strong entities.

3) one to many

Many to many

i) Yes,

Account type – superclass

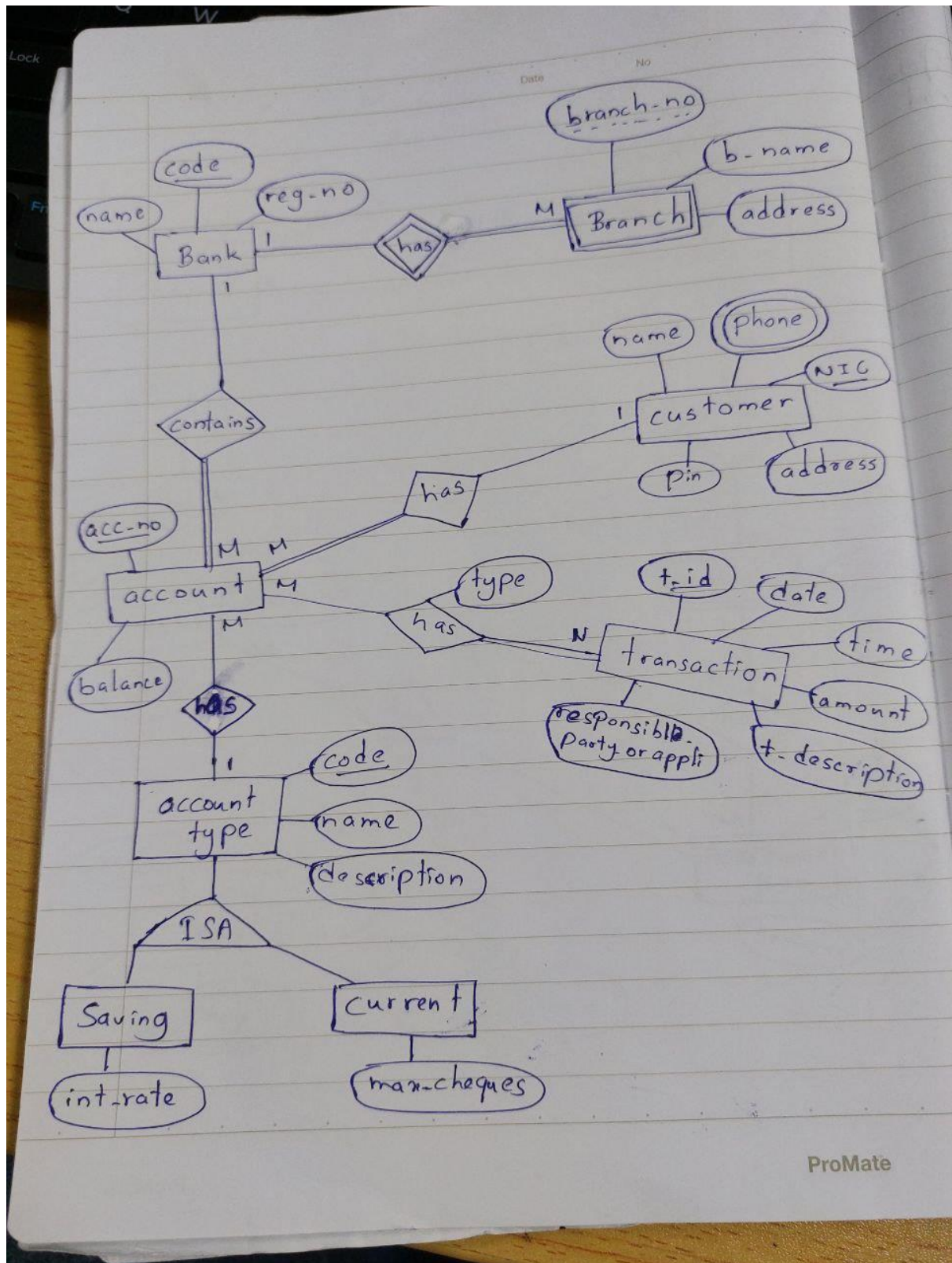
Saving account type, current account type – subclasses

- Disjoint and covering - Account type may be saving or current.

ii) No

4)

Entity	Key	Attributes
1. Bank	Code, Name	Code, name, registration number
2. Branch	Branch number	Branch number, branch name, address
3. Account	Account number	Account number, balance
4. Transaction	Transaction id	transaction id, date and time of transaction, amount, and responsible party or application for the transaction
5. Customer	NIC, Customer number	customer number, NIC number, name, address, phone, and PIN.
6. Account type	Account code	name, a code and a description



Activity 02

1) 6 entities

- Campus
- Program
- Batch
- Academic semester
- Semester
- Student

2) No

i. Semester

ii. Weak entities depend on strong entities and they cannot exist without strong entities.

3) One to many

Many to many

i. No

ii. Batch, Academic Semester

a) Many to many
One to many

4)

Entity	Key	Attributes
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1. Campus	Code , Name	code, name and address
2. Program	Code	Code , Name, description and specialization
3. Batch	Id	Id, Group number, maximum number of student, section
4. Academic year	Academic Semester, Academic year	Academic Semester, Academic year
5. Student	Registration number	Registration number, name, address, phone

