Kandahar University
Faculty of Computer Science
Database Department

Third semester

Subject: Fundamentals of DATABASE

Project of Second (2) Group

Teacher: Hazrat Musa (Hodman)

Project Name: Bank Management System

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Deputy leader: Abdul Hai
Our Group members as under:

No	Name	Father Name	CS ID
1	Ahmad Zubair "Afghanmal"	Abdul Jabbar	CS07008
2	Abdul Hai	Mohammad Surgol	CS07078
3	Abdul Jalil	Abdul Ghani	CS07077
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5	Abdul Rahman	Ali Ahmad	CS07080
6	AhmadUllah	Moh-Naqibulaah	CS07005
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8	Mohammad Tahir	Mer Ali	CS07129
9	Ehsanullah	Mohammad Ismail	CS07002
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1. We have six entities in our bank management system, they are the following:
 i. Bank
 ii. Branch
 iii. Customer
 iv. Loan
 v. Employee
 vi. Accounts
2. The attributes of each entity are:
 i. Bank attributes (Name, Address, Bank Number)
 ii. Branch Attributes (BR Number, Br Name, Br Location)
 iii. Customer Attributes (Name, Father-Name, Martial-Status, Amount, Phone-number, SSN, Gender, Account Number)
 iv. Loan Attributes (ID, amount, Type)
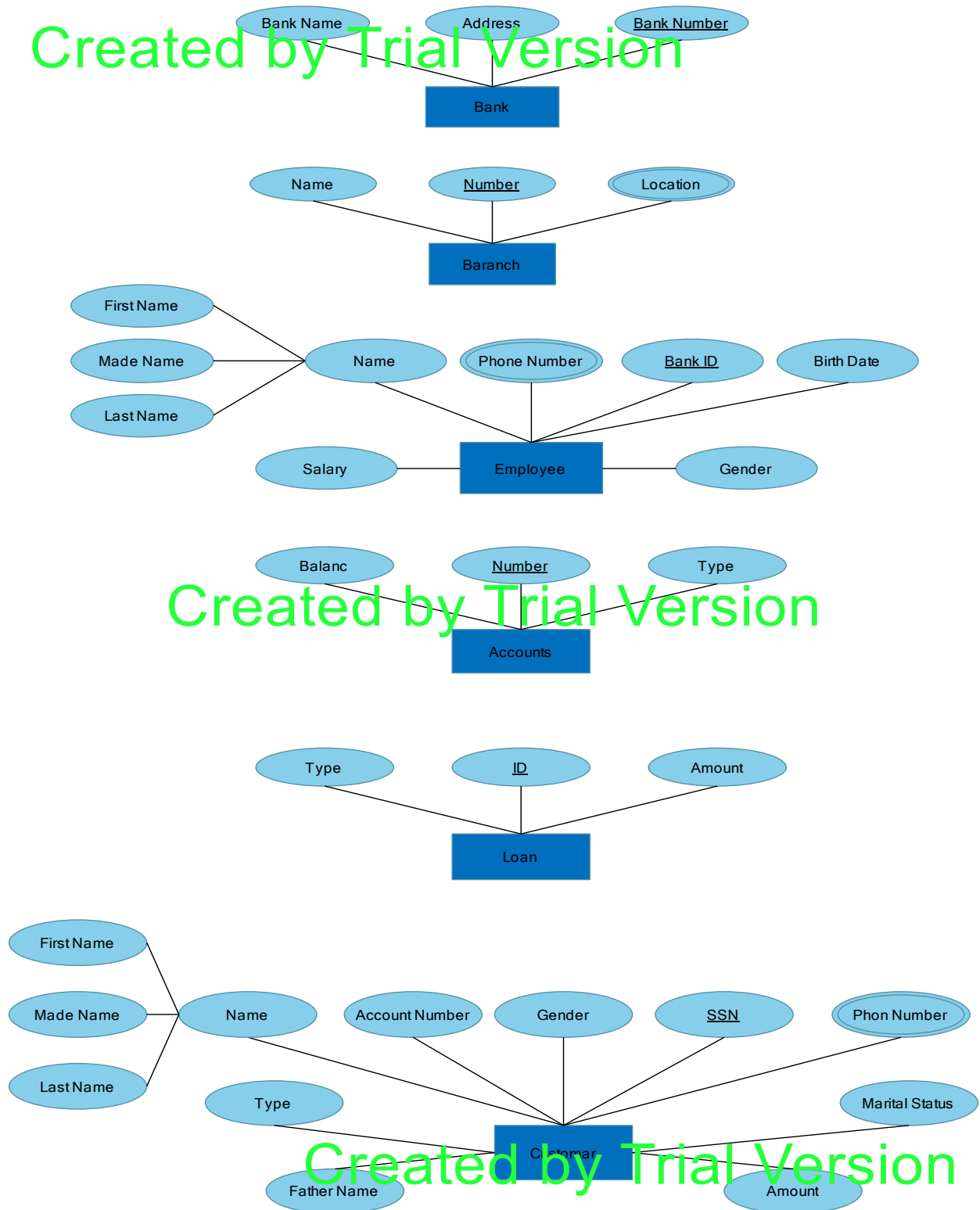 v. Accounts Attributes (Number, Type, Balance)

The analyses of our projects:

- We have 6 entities in our project schema, every one of them will define bravely:
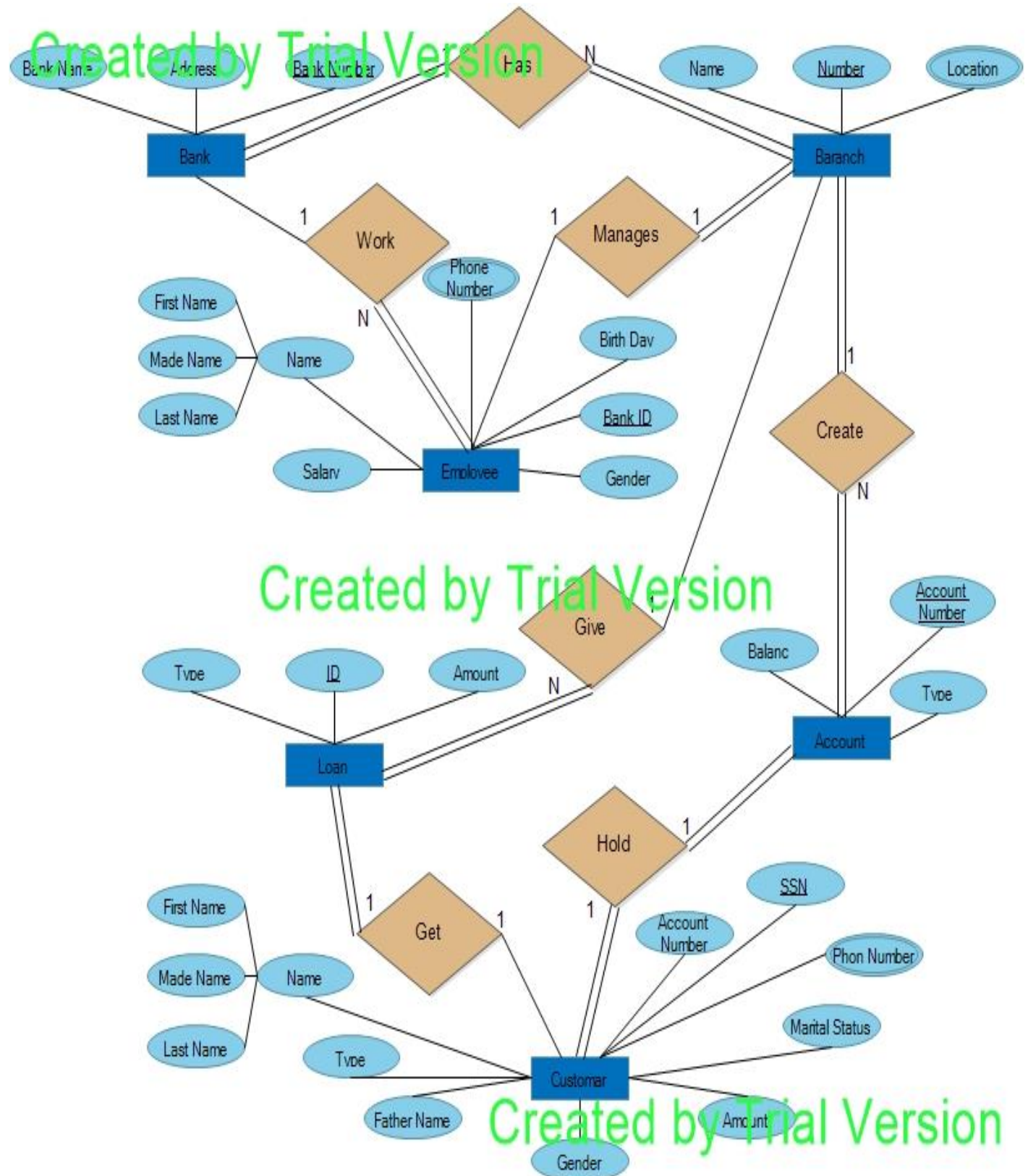1. The BANK entity has these three attributes: Bank name, bank address and a unique bank id.
2. The BRANCH entity has these three attributes: Branch name, a unique branch number and branch location.
3. The EMPLOYEE entity has these six attributes: employee name (name is composed attribute like: first name, mid name and last name), employee gender, employee phone number, employee salary, employee birth date and a unique employee bank id.
4. The ACCONT entity has these three attributes: accounts types, accounts balance and a unique accounts number.
5. The LOAN has these three attributes: loan type, loan amount and a unique loan id.
6. The COUSTUMAR entity has these nine attributes: customer name (which is composite attribute: first name, mid name and last name), customer father name, customer marital status, customer gender, customer amount, customer a unique account number, customer phone number, customer SSN.

Attributes for our DBMS:

Bank Name   Address   Bank Number

Bank

Name   Number   Location

Baranch

First Name
Made Name   Name   Phone Number   Bank ID   Birth Date
Last Name

Salary   Employee   Gender

Balanc   Number   Type

Accounts

Type   ID   Amount

Loan

First Name
Made Name   Name   Account Number   Gender   SSN   Phon Number
Last Name

Type   Marital Status

Customer

Father Name   Amount

ERD for our DBMS:

Mapping for our DBMS:

Mapping of Bank management system project.

Bank

Name	Address	Bank-number

Employee

Birth-date	Bank-ID	Salary	SSN	First-name	Mid-Name	Last-Name	Bank-Number

Branch

Name	Branch-number	Bank-ID	Bank-number

Loan

Loan-ID	Type	Amount	Branch-Number	SSN

Account

Account-Number	Type	Balance	Branch_number

customer

F-name	M-name	L-name	SSN	Father-name	Gender	Accounts-numbers

Customer-Account

Account-Numbers	SSN

Branch

Location	Branch-Number

Employee

Phone-Number	Bank-ID

Customer

Phone-Number	SSN