Task No %-1 Date %- 29-01-2025 Conceptual Design using

Entity-Relationship Diagram 
Banking management system

Aim: To design an Entity-Relationship Diagram for a Banking Management System.

Steps to draw E-R Diagram:

Stepl: Identifying the main sh Entitles.

- 1. customer
- 2. Account
- 2. Branch
- 4. Loan
- 5. Credit card
- 6. Banker-info

Step 2: - Defining - Attributes - For each Entity

- 1. Customer: Customer\_ID (PK), Name, Address, Phone, Email.
- 2. Account: Account\_NO(PK), balance, category.
- 3. Branch: Branch-ID (PK), Branch-Name, Location, IFSC code.
- 4. Banker-9090 :- Banker-name, Banker-ID (PK), banker-email.
- 5. Loan: Loan-ID (PK), amount, Duration.
- 6. Credit-Card & credit-card number (PK), Lamit, expery-date.

Steps: Identifying Relationship Blw Entitles.

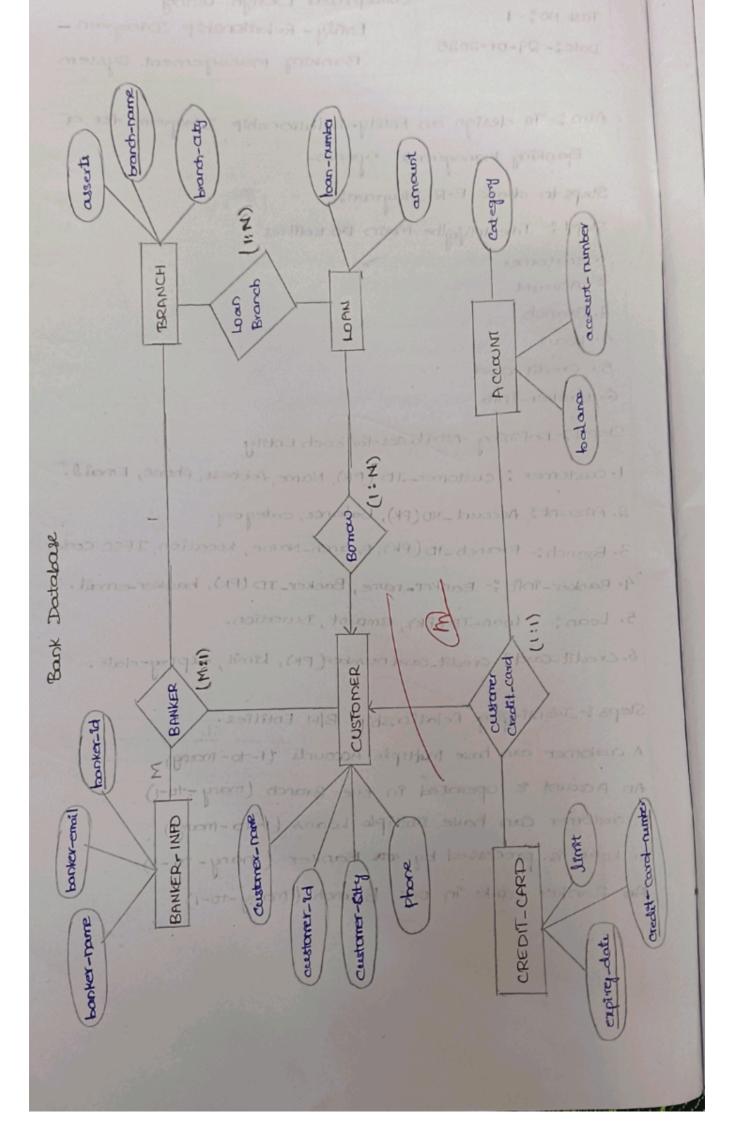
A customer can have multiple Accounts (1-to-many).

An Account is operated in one Branch (many-to-1)

A constomer can have multiple Loans (1-to-many)

A. Loan is processed by an Banker (many-to-1)

As Banker cooks in one Branch (many-to-1)



Otep 4: - Set cardinalities.

Using (1:1), (1:11), or (m:11) to indicate how many instances

are involved.

step 5: Draw the ER diagram

then chawlio Website

Draw diagram using!

Rectangles for entities

Ellipse for attributes

Diamonds for relationships

Lines to connect them

Undersine the primary keys.

Input :-

Cl rsolors by

Bank Management Bystem.

Entity Relationship Diagram (ERD) that Clearly Registern, Shows:
All inthentified entities with attributes
All relationships with Approviate Cardinalities
All relationships with Approviate Cardinalities
Foreign keys and keys marked appropriately.

EX NO.

PERFORMANCE (5)

RESULT AND ANALYSIS (5)

VIVA VOCE (5)

RECORD (5)

TOTAL (20)

ON WITH DATE

expiry date

Result: Hence, the Entity-Relationship diagram of Banking management system was successfully drawn using chaw. 10.

Task No: - 1.1 Date: -05/08/05

Converting ER Diagram into Relationshipalmodel.

Aim: To convert Banking Management ER Diagram into Relational Model.

Steps for converting the ER diagram to the table.

- · Entity type Becomes a table
- · All single-valued attribute becomes a column for the table.
- · A key attribute of the entity type represented by the primary key.
- · The multivalued attribute is represented by a separate
- · Composite attributes represented by components.
- · Derived attributes are not considered in the table.

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EX NO.	1.1
PERFORMANCE (5)	3
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	10 7
SIGN WITH DATE	100-
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Result: Hence, the Relational model of Banking management system using ER model was successfully drawn.

