

Date: 29/7/21

Task-1.1 Mobile phone purchase

The Entity Relationship (ER) diagram for a mobile phone Purchase and Billing Management System that maintains details of customers.

Aim:- To design an Entity Relationship (ER) diagram for a mobile phone purchase and Billing management System that maintain details of customers, mobiles, billing and logic credentials for administrative purpose.

Algorithm:-

Step 1:- start

Step 2:- Identify the main Entities.

- * customers
- * mobile
- * Bill

* Logic

Step 3:- Identify the Attributes for each Entity

* Customers:- CustID, CustName, city, phone, no.
Amount Paid

* Mobile:- phone ID, mobile Name, mobile Price

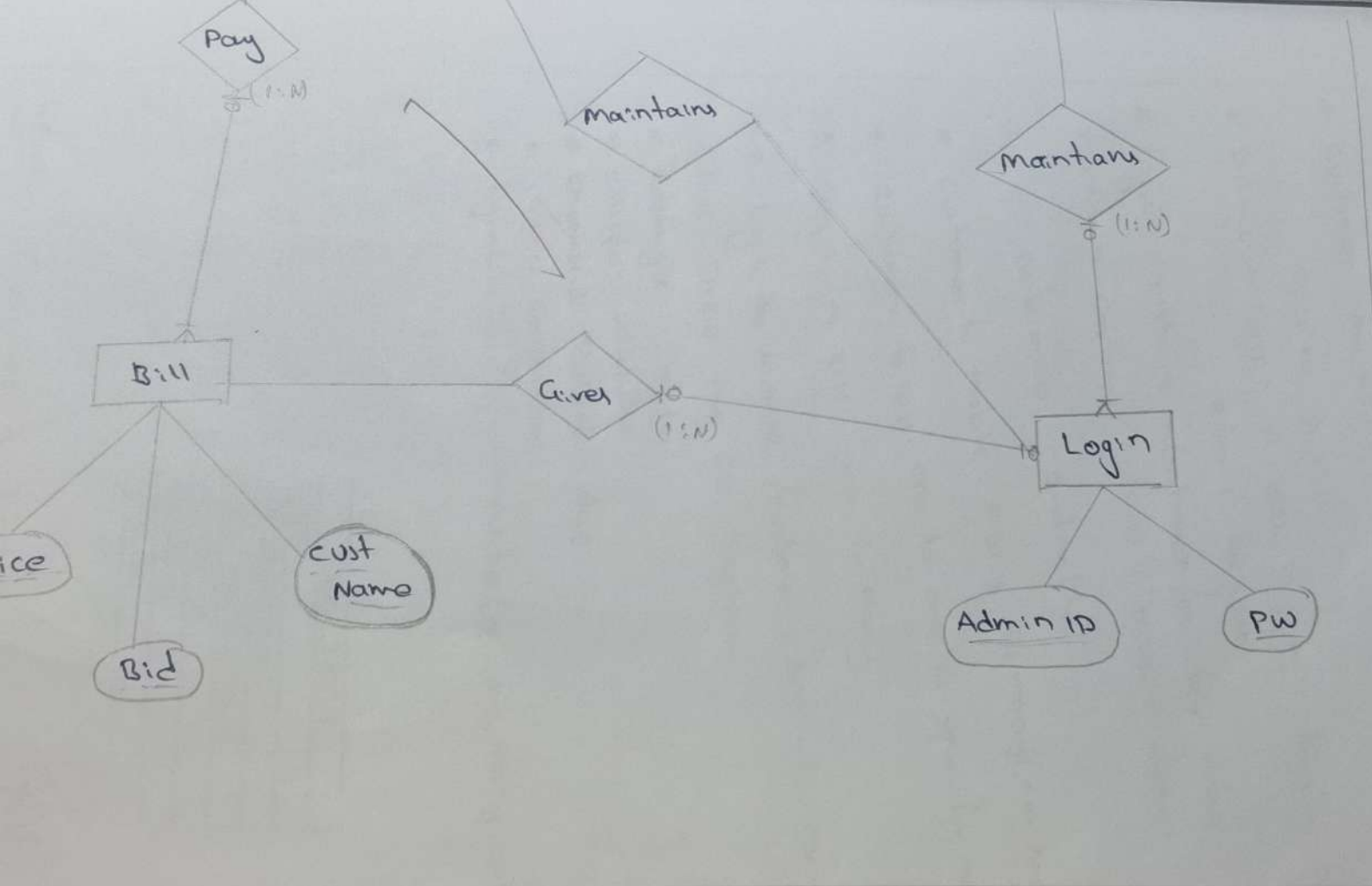
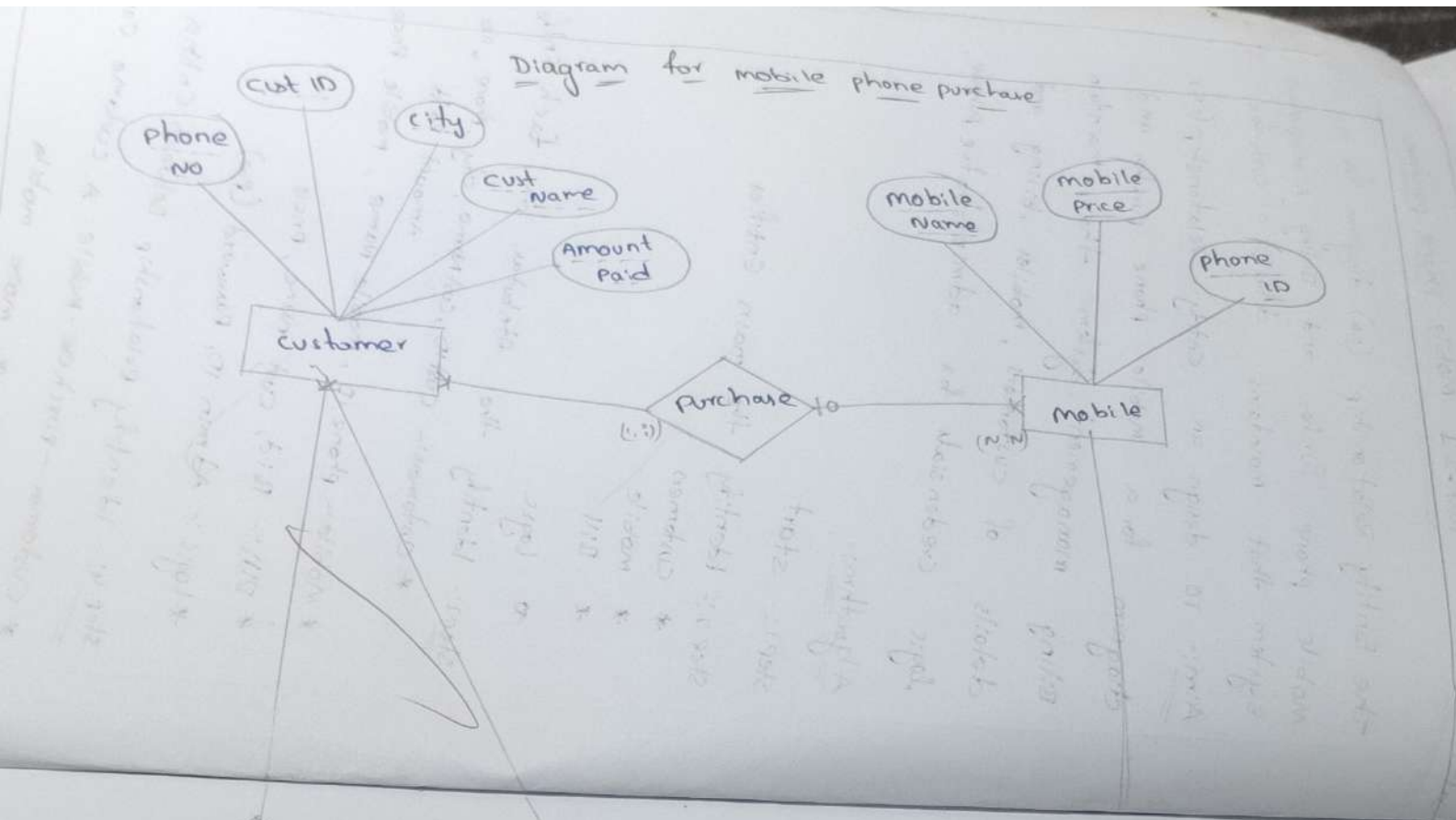
* Bill:- Bid, Cust name, Price

* Logic:- Admin ID, Password (Pw)

Step 4:- identify Relationship Between Entities

* Customer - purchase - mobile: A customer can purchase one or more mobile

Diagram for mobile phone purchase



* Customer - pay - bill:- A customer pays and receives a bill

* Bill - gives - logic:- A bill is given by logic / admin account

* Logic - maintains - customer / mobile:- Admins maintain customer and mobile data

step 5:- Determine cardinality.

* Customer to mobile: Many - to many (via purchase)

* Customer to bill: one - to - one or one - to many

* Logic to bill: one - to - many

* Logic to mobile / customer:- one - to - many

Steps:- Draw the ER Diagram

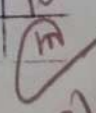
* Rectangle:- Entities

* Ellipse:- Attributes

* Diamond:- Relationship

* Lines:- Connections

* Symbol (1,1):- (cardinality (eg. one, many, optional))

VEL TECH	
EX NO.	21
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	0
RECORD (5)	-
TOTAL (20)	10
SIGN WITH DATE	

Result:- Thus, the to design an entity Relationship diagram for a mobile phone purchase and billing management is successfully verified.

Date 29/7/21

Task 1.2

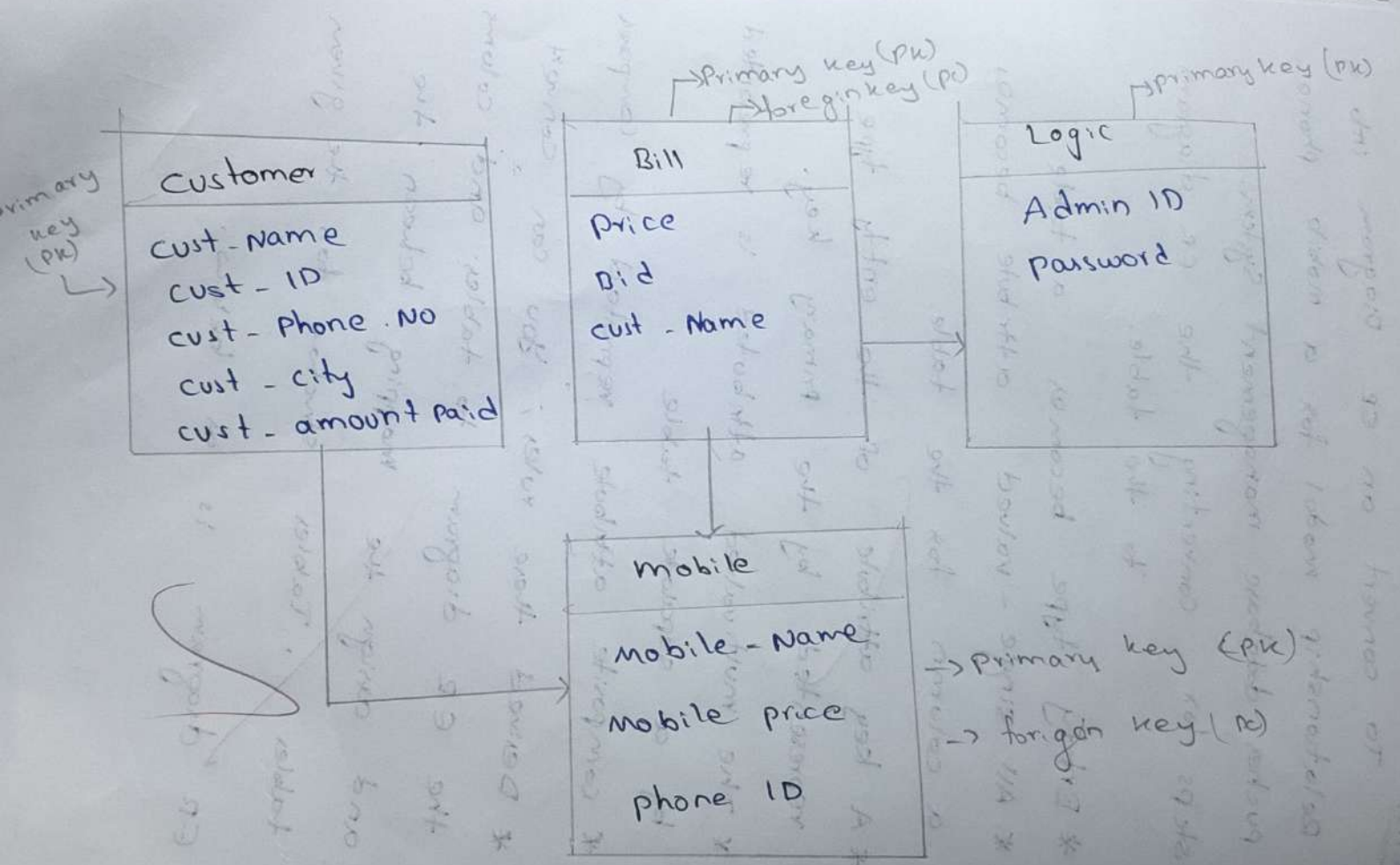
Convert ER Diagram into Relationship model

Aim:-

To convert an ER Diagram into a Relationship model for a mobile phone pucher database management System.

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 attributed is represented by a sepalate table
- * composite attribute repreted by compones
- * Derived these rules, you can convert the ER diagram to tables and columns and assign the mapping between the tables. Tables structure for the given ER diagram is as below.



VEL TECH	
EX NO.	61
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	0
RECORD (5)	-
TOTAL (20)	10
DATE	09/08/20

Result:-

Thus, the conversion of ER Diagram into in Relation ship model for a mobile phone purches data base management system was drawn succently.