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Enrollment No – BT21GCS161
Dimensional and NoSQL Databases
Assignment 06(I)

### Question -

### DDBMS (Distribution Database Management System)

### Create a schema for banking System for Horizontal Fragmentation

### Horizontal Fragmentation

- Horizontal fragmentation is typically used to distribute data across multiple nodes in a distributed database system
- Divides table by Rows

### Table: Account Information

{Fragmented based on account types (e.g., savings, current, loans)}

Column Name	Data type	Description
Account Holder Name	Varchar	full Name
Phone No.	Integer	Customer Phone number
Account ID	Integer	Unique Account Identifier (primary Key)
Account Type	Varchar	Type of account customer want
Address	Varchar	Permeant Address of the customer
Balance	Integer	Amount Balance
Home Branch	Varchar	Location of Branch
Account Opening Date	Date	Date of account created

#### Fragmentation Criteria:

Fragment 1: Savings Account

Fragment 2: Current Account

Fragment 3: Pension Account

Fragment 4: Fixed Deposit Account

Fragment 5: Loan Account

Account Holder Name	AccountID	PhoneNo	Account Type	Address	Balance	Home Branch	Account Opening Date
Aryan	9960765259	8274252345	Saving Acc.	Kalyan	2000	Thane	19-Jan- 2022
Raja	9246727582	8385637322	Saving Acc.	Kalyan	1500	Thane	22-Aug- 2021
Soham	8374773932	9376458337	Current Acc.	Faridabad	2500	Faridabad	24-Feb- 2019
Aniket	9214739275	8265820256	Saving Acc.	Mumbai	5000	Navi Mumbai	20-Jan- 2019
Anil	9264813622	8932652347	Pension Acc.	Delhi	80000	Old Delhi	25-jan- 2015
Arvind	9832568263	9982569823	Fixed Deposit Acc.	Gandhi Nagar	80000	Delhi	31-Jan- 2019
Monit	9174914112	8273491323	Loan Acc.	Amritsar	5000	Amritsar	22-may- 2022
Ranjeev	9275982232	7258256233	Current Acc.	Faridabad	1500	Faridabad	22-Dec- 2018

### Fragment 1: Savings Account

Account Holder Name	AccountID	PhoneNo	Account Type	Address	Balance	Home Branch	Account Opening Date
Aryan	9960765259	8274252345	Saving Acc.	Kalyan	2000	Thane	19-Jan- 2022
Raja	9246727582	8385637322	Saving Acc.	Kalyan	1500	Thane	22-Aug- 2021
Aniket	9214739275	8265820256	Saving Acc.	Mumbai	5000	Navi Mumbai	20-Jan- 2019

# Fragment 2: Current Account

Account	AccountID	PhoneNo	Account	Address	Balance	Home	Account
Holder			Type			Branch	Opening
Name							Date
Soham	8374773932	9376458337	Current Acc.	Faridabad	2500	Faridabad	$24 ext{-}Feb ext{-}$
							2019
Ranjeev	9275982232	7258256233	Current Acc.	Faridabad	1500	Faridabad	$22 ext{-}Dec ext{-}$
							2018

### Fragment 3: Pension Account

Account Holder Name	AccountID	PhoneNo	Account Type	Address	Balance	Home Branch	Account Opening Date
Anil	9264813622	8932652347	Pension Acc.	Delhi	80000	Old	25- $jan$ -
						Delhi	2015

# Fragment 4: Fixed Deposit Account

					Date
9982569823		Gandhi	80000	Delhi	31-Jan- 2019
9	982569823	982569823 Fixed Deposit Acc.			

# Fragment 5: Loan Account

Account Holder Name	AccountID	PhoneNo	Account Type	Address	Balance	Home Branch	Account Opening Date
Monit	9174914112	8273491323	$Loan\ Acc.$	Amritsar	5000	Amritsar	22-may-
							2022