Interest Calculator

package com.InterestCalculator; //Base class containing all the basic details of the bank public class Banks { //Declaration of attributes for identifying the Bank public String BankName; public String Bankld; public String IFSCCode; public String MICRCode; public String BankLocation; public String phoneNumber; //Constructor for initializing the attributes public Banks(String bankName, String bankId, String IFSCCode, String MICRCode, String bankLocation, String phoneNumber) { this.BankName = bankName: this.BankId = bankId; this.IFSCCode = IFSCCode; this.MICRCode = MICRCode; this.BankLocation = bankLocation; this.phoneNumber = phoneNumber; } //Display the bank details public void getBankDetails(){ System.out.println(".....Bank Details Fetched....."); System.out.println("Bank Name:"+this.BankName); System.out.println("Bank Id:"+this.BankId);

```
System.out.println("IFSC Code:"+this.IFSCCode);
    System.out.println("MICR Code:"+this.MICRCode);
    System.out.println("Bank Location:"+this.BankLocation);
    System.out.println("Phone Number:"+this.phoneNumber);
  }
}
package com.InterestCalculator;
public class Interests extends Banks{
  //Inheriting from the parent class Bank
  //Calling the parent method object
  public Interests (String bankName, String bankId, String IFSCCode, String
MICRCode, String bankLocation, String phoneNumber) {
    super(bankName, bankId, IFSCCode, MICRCode, bankLocation,
phoneNumber);
  }
  //Declaring the rate of interests and the time periods as private
modifiers
  private double PersonalLoan;
  private int PersonalLoanTimePeriod;
  private double HousingLoan;
  private int HousingLoanTimePeriod;
  private double educationalLoan;
  private int educationalLoanTimePeriod;
  private double goldLoan;
  private int goldLoanTimePeriod;
```

```
private double goldRate;
  //setting the rate of interests and time period
  public void setInterests(double personalLoan, double housingLoan,
double EducationalLoan, double GoldLoan, int personalLoanTimePeriod,
int housingLoanTimePeriod, int EducationalLoanTimePeriod, int
GoldLoanTimePeriod, double GoldRate){
    PersonalLoan = personalLoan;
    HousingLoan = housingLoan;
    educationalLoan = EducationalLoan;
    goldLoan = GoldLoan;
    PersonalLoanTimePeriod = personalLoanTimePeriod;
    HousingLoanTimePeriod = housingLoanTimePeriod;
    educationalLoanTimePeriod = EducationalLoanTimePeriod;
    goldLoanTimePeriod = GoldLoanTimePeriod;
    goldRate = GoldRate;
  }
  //getter and setter for the private attributes
  public double getPersonalLoan() {
    return PersonalLoan:
  }
  public void setPersonalLoan(double personalLoan) {
    PersonalLoan = personalLoan;
  }
  public int getPersonalLoanTimePeriod() {
```

```
return PersonalLoanTimePeriod;
}
public void setPersonalLoanTimePeriod(int personalLoanTimePeriod) {
  PersonalLoanTimePeriod = personalLoanTimePeriod;
}
public double getHousingLoan() {
  return HousingLoan;
}
public void setHousingLoan(double housingLoan) {
  HousingLoan = housingLoan;
}
public int getHousingLoanTimePeriod() {
  return HousingLoanTimePeriod;
}
public void setHousingLoanTimePeriod(int housingLoanTimePeriod) {
  HousingLoanTimePeriod = housingLoanTimePeriod;
}
public double getEducationalLoan() {
  return educationalLoan;
}
public void setEducationalLoan(double educationalLoan) {
  this.educationalLoan = educationalLoan;
}
```

```
public int getEducationalLoanTimePeriod() {
    return educationalLoanTimePeriod;
  }
  public void setEducationalLoanTimePeriod(int
educationalLoanTimePeriod) {
    this.educationalLoanTimePeriod = educationalLoanTimePeriod;
  }
  public double getGoldLoan() {
    return goldLoan;
  }
  public void setGoldLoan(double goldLoan) {
    this.goldLoan = goldLoan;
  }
  public int getGoldLoanTimePeriod() {
    return goldLoanTimePeriod;
  }
  public void setGoldLoanTimePeriod(int goldLoanTimePeriod) {
    this.goldLoanTimePeriod = goldLoanTimePeriod;
  }
  public double getGoldRate() {
    return goldRate;
  }
```

```
public void setGoldRate(double goldRate) {
    this.goldRate = goldRate;
  }
}
package com.InterestCalculator;
public class InterestCalculator {
  //Formula to find simpleInterest SI = (PNR)/100
  //calculate interest for gold loans
  public double calculateInterest(double noOfGramsOfGold, double
goldRate, double rate, int timePeriod){
    /*System.out.println("gold in grams"+noOfGramsOfGold);
    System.out.println("Gold Rate:"+goldRate);
    System.out.println("Interest:"+rate);
    System.out.println("Time Period:"+timePeriod);*/
    return (noOfGramsOfGold*goldRate) * timePeriod*rate/100;
  }
  //calculate interest for other loans except gold loans
  public double calculateInterest(double principal, double rate, int
timePeriod){
    /*System.out.println("Principal:"+principal);
    System.out.println("Interest:"+rate);
    System.out.println("Time Period:"+timePeriod);*/
    return (principal*timePeriod*rate)/100;
  }
}
```

Main.iava

```
package com.InterestCalculator;
import java.util.Scanner;
public class Main{
  public static void main(String[] args){
    //Creating Bank Object-SBI
    Interests SBI = new Interests("SBI",
"85SAD", "SBIB0085623", "964563215", "Attibele", "04244875362");
    //Setting rate of interests and time period-SBI
    SBI.setInterests(4.0,5.6,3.0,3.45, 2, 15,3,1, 2500.56);
    //Creating Bank Object- INDIAN BANK
    Interests INDIAN BANK = new Interests ("Indian Bank",
"85FB8","IDIB656AS623","862345956","JP Nagar","04244237585");
    //Setting rate of interests and time period- INDIAN BANK
    INDIAN BANK.setInterests(4.2,5.0,2.7,3.8, 2, 16,2,1, 2756.85);
    //Creating Bank Object- AXIS BANK
    Interests AXIS = new Interests("Axis",
"8A511D","AXIB0SD56623","8454613225","Bommasandara","04244726453");
    //Setting rate of interests and time period- AXIS BANK
    AXIS.setInterests(2.0,4.0,1.7,2.95, 1, 17,2,1, 2223.46);
    //Creating Bank Object- HDFC BANK
    Interests HDFC = new Interests("HDFC",
"7WE86","HDF986S232","8662105753","BTM Layout","04244153642");
    //Setting rate of interests and time period- HDFC BANK
    HDFC.setInterests(4.0,5.8,3.2,3.7, 4, 13,4,1, 2900.56);
```

```
//Creating Bank Object- ICICI BANK
    Interests ICICI = new Interests("ICICI",
"178AS","ICI6563S589","753056352","Electronic City","04244756325");
    //Setting rate of interests and time period- ICICI BANK
    ICICI.setInterests(4.7,4.23,7.1,4.5, 3, 17,4,1, 2575.44);
    //Creating objects for classes present in the package
    Scanner sc = new Scanner(System.in);
    DisplayInterest di = new DisplayInterest();
    InterestCalculator ic = new InterestCalculator();
    UserDetails ud = new UserDetails();
    ud.getUserDetails(sc);//get user details from the user
    //Select Bank from the available options
    String youChose;
    do {
       System.out.println("Select a
bank:----");
       System.out.print("Enter 1 for State Bank of India\nEnter 2 for Indian
Bank\nEnter 3 for Axis Bank\nEnter 4 for HDFC Bank\nEnter 5 for ICICI
Bank\nYour choice?");
      int bankChoice = sc.nextInt();
      //Select the type of loan
       System.out.print("Enter 1 for gold loan\nEnter 2 for Personal
Loan\nEnter 3 for Housing Loan\nEnter 4 for Educational Loan\nYour
Choice?");
      int typeOfLoan = sc.nextInt();
      double PrincipalAmount = 0.0;
      double noOfGramsOfGold = 0.0;
```

```
//Get the weight of gold in grams if it is gold loan option(1) or get
the principal option(2,3,4)
      if (tupeOfLoan == 1) {
         System.out.print("Enter Gold weight (in grams):");
         noOfGramsOfGold = sc.nextDouble();
      } else {
         System.out.print("Enter the Principal Amount (in rupees):");
         PrincipalAmount = sc.nextDouble();
       }
Sustem.out.println("------
----''):
      //display user details
       ud.displayUserDetails();
       double SimpleInterest;
      switch (bankChoice) {//controlling the flow using switch
         //SBI Bank
         case 1 -> {
           if (typeOfLoan == 1) {//Gold Loan}
             //findTotalInterest
             SimpleInterest = ic.calculateInterest(noOfGramsOfGold,
SBI.getGoldRate(), SBI.getGoldLoan(), SBI.getGoldLoanTimePeriod());
             SBI.getBankDetails();
             di.displayAmount("Gold Loan", noOfGramsOfGold,
SBI.getGoldRate(), SBI.getGoldLoan(), SBI.getGoldLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 2) {//Personal Loan
             //findTotalInterest
             SimpleInterest = ic.calculateInterest(PrincipalAmount,
SBI.getPersonalLoan(), SBI.getPersonalLoanTimePeriod());
```

```
SBI.getBankDetails();
              di.displayAmount("Personal Loan", PrincipalAmount,
SBI.getPersonalLoan(), SBI.getPersonalLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 3) {//Housing Loan
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
SBI.getHousingLoan(), SBI.getHousingLoanTimePeriod());
              SBI.getBankDetails();
              di.displayAmount("Housing Loan", PrincipalAmount,
SBI.getHousingLoan(), SBI.getHousingLoanTimePeriod(), SimpleInterest);
           } else if (tupeOfLoan == 4) {//Educational Loan
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
SBI.getEducationalLoan(), SBI.getEducationalLoanTimePeriod());
              SBI.getBankDetails();
              di.displayAmount("Educational Loan", PrincipalAmount,
SBI.getEducationalLoan(), SBI.getEducationalLoanTimePeriod(),
SimpleInterest);
         }
         //INDIAN BANK
         case 2 -> {
           if (typeOfLoan == 1) {//Gold Loan
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(noOfGramsOfGold,
INDIAN_BANK.getGoldRate(), INDIAN_BANK.getGoldLoan(),
INDIAN_BANK.getGoldLoanTimePeriod());
             INDIAN BANK.getBankDetails();
```

```
di.displayAmount("Gold Loan", noOfGramsOfGold,
INDIAN BANK.getGoldRate(), INDIAN BANK.getGoldLoan(),
INDIAN BANK.getGoldLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 2) {//Personal Loan
             //findTotalInterest
             SimpleInterest = ic.calculateInterest(PrincipalAmount,
INDIAN BANK.getPersonalLoan(),
INDIAN BANK.getPersonalLoanTimePeriod());
             INDIAN BANK.getBankDetails();
             di.displayAmount("Personal Loan", PrincipalAmount,
INDIAN BANK.getPersonalLoan(),
INDIAN BANK.getPersonalLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 3) {//Housing Loan
             //findTotalInterest
             SimpleInterest = ic.calculateInterest(PrincipalAmount,
INDIAN BANK.getHousingLoan(),
INDIAN BANK.getHousingLoanTimePeriod());
             INDIAN BANK.getBankDetails();
             di.displayAmount("Housing Loan", PrincipalAmount,
INDIAN_BANK.getHousingLoan(),
INDIAN_BANK.getHousingLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 4) {//Educational Loan
             //findTotalInterest
             SimpleInterest = ic.calculateInterest(PrincipalAmount,
INDIAN BANK.getEducationalLoan(),
INDIAN BANK.getEducationalLoanTimePeriod());
             INDIAN_BANK.getBankDetails();
             di.displayAmount("Educational Loan", PrincipalAmount,
INDIAN BANK.getEducationalLoan(),
INDIAN BANK.getEducationalLoanTimePeriod(), SimpleInterest);
```

```
}
         }
         //AXIS BANK
         case 3 -> {
           if (typeOfLoan == 1) {//Gold Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(noOfGramsOfGold,
AXIS.getGoldRate(), AXIS.getGoldLoan(), AXIS.getGoldLoanTimePeriod());
              AXIS.getBankDetails();
              di.displayAmount("Gold Loan", noOfGramsOfGold,
AXIS.getGoldRate(), AXIS.getGoldLoan(), AXIS.getGoldLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 2) {//Personal Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
AXIS.getPersonalLoan(), AXIS.getPersonalLoanTimePeriod());
             AXIS.getBankDetails();
              di.displayAmount("Personal Loan", PrincipalAmount,
AXIS.getPersonalLoan(), AXIS.getPersonalLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 3) {//Housing Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
AXIS.getHousingLoan(), AXIS.getHousingLoanTimePeriod());
             AXIS.getBankDetails();
              di.displayAmount("Housing Loan", PrincipalAmount,
AXIS.getHousingLoan(), AXIS.getHousingLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 4) {//Educational Loan
              //findTotalInterest
```

```
SimpleInterest = ic.calculateInterest(PrincipalAmount,
AXIS.getEducationalLoan(), AXIS.getEducationalLoanTimePeriod());
             AXIS.getBankDetails();
              di.displayAmount("Educational Loan", PrincipalAmount,
AXIS.getEducationalLoan(), AXIS.getEducationalLoanTimePeriod(),
SimpleInterest);
         }
         //HDFC
         case 4 -> {
           if (typeOfLoan == 1) {//Gold Loan}
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(noOfGramsOfGold,
HDFC.getGoldRate(), HDFC.getGoldLoan(),
HDFC.getGoldLoanTimePeriod());
             HDFC.getBankDetails();
              di.displayAmount("Gold Loan", noOfGramsOfGold,
HDFC.getGoldRate(), HDFC.getGoldLoan(),
HDFC.getGoldLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 2) {//Personal Loan
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
HDFC.getPersonalLoan(), HDFC.getPersonalLoanTimePeriod());
             HDFC.getBankDetails();
             di.displayAmount("Personal Loan", PrincipalAmount,
HDFC.getPersonalLoan(), HDFC.getPersonalLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 3) {//Housing Loan
             //findTotalInterest
```

```
SimpleInterest = ic.calculateInterest(PrincipalAmount,
HDFC.getHousingLoan(), HDFC.getHousingLoanTimePeriod());
              HDFC.getBankDetails();
              di.displayAmount("Housing Loan", PrincipalAmount,
HDFC.getHousingLoan(), HDFC.getHousingLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 4) {//Educational Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
HDFC.getEducationalLoan(), HDFC.getEducationalLoanTimePeriod());
              HDFC.getBankDetails();
              di.displayAmount("Educational Loan", PrincipalAmount,
HDFC.getEducationalLoan(), HDFC.getEducationalLoanTimePeriod(),
SimpleInterest);
         }
         //ICICI
         case 5 -> {
           if (typeOfLoan == 1) {//Gold Loan
             //findTotalInterest
              SimpleInterest = ic.calculateInterest(noOfGramsOfGold,
ICICI.getGoldRate(), ICICI.getGoldLoan(), ICICI.getGoldLoanTimePeriod());
             ICICI.getBankDetails();
              di.displayAmount("Gold Loan", noOfGramsOfGold,
ICICI.getGoldRate(), ICICI.getGoldLoan(), ICICI.getGoldLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 2) {//Personal Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
ICICI.getPersonalLoan(), ICICI.getPersonalLoanTimePeriod());
```

```
ICICI.getBankDetails();
              di.displayAmount("Personal Loan", PrincipalAmount,
ICICI.getPersonalLoan(), ICICI.getPersonalLoanTimePeriod(),
SimpleInterest);
           } else if (typeOfLoan == 3) {//Housing Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
ICICI.getHousingLoan(), ICICI.getHousingLoanTimePeriod());
              ICICI.getBankDetails();
              di.displayAmount("Housing Loan", PrincipalAmount,
ICICI.getHousingLoan(), ICICI.getHousingLoanTimePeriod(), SimpleInterest);
           } else if (typeOfLoan == 4) {//Educational Loan
              //findTotalInterest
              SimpleInterest = ic.calculateInterest(PrincipalAmount,
ICICI.getEducationalLoan(), ICICI.getEducationalLoanTimePeriod());
              ICICI.getBankDetails();
              di.displayAmount("Educational Loan", PrincipalAmount,
ICICI.getEducationalLoan(), ICICI.getEducationalLoanTimePeriod(),
SimpleInterest);
           }
         }
         //Wrong option
         default -> System.out.println("Invalid Choice. Please Try Again");
       }
       //ask the user if he/she needs to calculate more interests
       System.out.print("Wish to view results of other banks(yes/no)?");
       youChose = sc.next();
    }while(youChose.equals("yes"));
    System.out.println("Thank you:)");
  }
```

```
}
package com.InterestCalculator;
import java.util.Scanner;
public class UserDetails {
  public String userName;
  public long accountNumber;
  //Get user details
  public void getUserDetails(Scanner sc){
    System.out.print("Enter your Name: ");
    userName = sc.nextLine();
    System.out.print("Enter your account Number: ");
    accountNumber = sc.nextLong();
  }
  //Display user details
  public void displayUserDetails(){
    System.out.println(".....User Details:...");
    System.out.println("Account Holder:"+userName);
    System.out.println("Account Number:"+accountNumber);
  }
}
package com.InterestCalculator;
```

```
public class DisplayInterest {
  //Display the loan details with interest for gold loans
  public void displayAmount(String category, double noOfGrams, double
goldRate, double rate, int timePeriod, double simpleInterest){
    System.out.println(".....Loan Details....");
    System.out.println("Category:"+category);
    System.out.println("No of grams:"+noOfGrams);
    System.out.format("Today's cost of gold(Fixed by the
bank):%.2f",goldRate);
    System.out.println("\nInterest Rate:"+rate);
    double principal = noOfGrams*goldRate;
    System.out.format("Principal:%.2f",principal);
    System.out.println("\nTime period:"+(timePeriod*12)+" months");
    System.out.format("Overall Interest:%.2f",simpleInterest);
    double monthlyPay =
(principal/(timePeriod*12))+(simpleInterest/(timePeriod*12));
    System.out.format("\nTo Pay(monthly):%.2f",monthlyPay);
System.out.println("\n------
-----''):
  }
  //Display the loan details with interest for other loans except gold loans
  public void displayAmount(String category, double principal, double rate,
int timePeriod,double simpleInterest){
    System.out.println(".....Loan Details....");
    System.out.println("Category:"+category);
    System.out.format("Principal:%.2f",principal);
    System.out.println("\nInterest Rate:"+rate);
    System.out.println("Time period:"+(timePeriod*12)+" months");
```

OUTPUT:

Enter your Name: MO
Enter your account Number: 6383664520
Select a bank:-----Enter 1 for State Bank of India
Enter 2 for Indian Bank
Enter 3 for Axis Bank
Enter 4 for HDFC Bank
Enter 5 for ICICI Bank
Your choice?1
Enter 1 for gold loan
Enter 2 for Personal Loan
Enter 3 for Housing Loan
Enter 4 for Educational Loan
Your Choice?1
Enter Gold weight (in grams):10

User Details:
Account Holder:MO
Account Number:6383664520
Bank Details Fetched
Bank Name:SBI
Bank Id:85SAD
IFSC Code:SBIB0085623
MICR Code:964563215
Bank Location:Attibele
Phone Number:04244875362
Loan Details
Category:Gold Loan
No of grams:10.0
Today's cost of gold(Fixed by the bank):2500.56
Interest Rate:3.45
Principal:25005.60
Time period:12 months
Overall Interest:862.69
To Pay(monthly):2155.69
Wish to view results of other banks(yes/no)?yes
Select a bank:
Enter 1 for State Bank of India
Enter 2 for Indian Bank
Enter 3 for Axis Bank
Enter 4 for HDFC Bank
Enter 5 for ICICI Bank
Your choice?4
Enter 1 for gold loan
Enter 2 for Personal Loan

Enter 3 for Housing Loan
Enter 4 for Educational Loan
Your Choice?3
Enter the Principal Amount (in rupees):5000000
User Details:
Account Holder:MO
Account Number:6383664520
Bank Details Fetched
Bank Name:HDFC
Bank Id:7WE86
IFSC Code:HDF986S232
MICR Code:8662105753
Bank Location:BTM Layout
Phone Number:04244153642
Loan Details
Category:Housing Loan
Principal:5000000.00
Interest Rate:5.8
Time period:156 months
Interest Rate:5.8
Overall Interest():3770000.00
To Pay(monthly):56217.95
Wish to view results of other banks(yes/no)?no
Thank you:)

College Database

//create a table students with columns id,age,mobile number,registration number,year of batch

>>> create table students(id integer PRIMARY key AUTOINCREMENT,name varchar(50) NOT NULL,age INTEGER NOT NULL, mobile_number VARCHAR(11), registration_number VARCHAR(10) NOT NULL, year_of_batch INTEGER, UNIQUE(registration_number));

//create a table teachers with columns name, domain, department

>>> create table teachers(id integer PRIMARY key AUTOINCREMENT,name varchar(50) NOT NULL, domain varchar(40) not NULL,department varchar(20) not NULL);

//insert 10 rows into the table students

>>> INSERT into

students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Peyton List",19,"7853694127","22IT047",2022);

>>> INSERT into

students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Harry",18,"08642359186","21CS049",2021);

>>> INSERT into

students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Bebe Rexha",17,"6383452127","22EE015",2023);

>>> INSERT into

students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Halsey",18,"06425896153","21ME196",2021);

>>> INSERT into

students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Shawn",19,"07536241053","22BM075",2022);

>>> INSERT into students(name,age,mobile number,registration number,year of batch) VALUES ("Bieber",19,"08634529753","21IS045",2021); >>> INSERT into students(name,age,mobile number,registration number,year of batch) VALUES ("Alex",19,"09562067538","22RA035",2021); >>> INSERT into students(name,age,mobile number,registration number,year of batch) VALUES ("Khalid",19,"7568234862","21AE123",2021); >>> INSERT into students(name,age,mobile number,registration number,year of batch) VALUES ("Drake",19,"9997586754","22Cl121",2022); >>> INSERT into students(name,age,mobile_number,registration_number,year_of_batch) VALUES ("Weekend",18,"6583275862","21EC111",2023); //insert 10 rows into the table teachers >>> INSERT into teachers(name,domain,department) values ("Robert","Web technology","IT"); >>> INSERT into teachers(name,domain,department) values ("Mary","Digital Logics","ECE"); >>> INSERT into teachers(name,domain,department) values ("John","Software Engineering","CSE"); >>> INSERT into teachers(name,domain,department) values ("Shawn","Automation and machine vision","EI"); >>> INSERT into teachers(name,domain,department) values ("Riley","Android app technology","CSE"); >>> INSERT into teachers(name,domain,department) values ("Susan","Nano technology","Physics");

- >>> INSERT into teachers(name,domain,department) values ("Mathew","Circuits","ECE");
- >>> INSERT into teachers(name,domain,department) values ("Michael","HealthCare Technologies","BME");
- >>> INSERT into teachers(name,domain,department) values ("Michaela","Artificial Intelligence","IT");
- >>> INSERT into teachers(name,domain,department) values ("William","Data Science","IT");

//get all the records of students with year_of_bacth as 2022

>>> select * from students where year_of_batch = 2022

id	name	age	mobile_number	registration_number	year_of_batch
1	Peyton List	19	7853694127	22IT047	2022
5	Shawn	19	07536241053	22BM075	2022
9	Drake	19	9997586754	22Cl121	2022

//get all the records of teachers where department is CSE

>>> select * from teachers where department = "CSE"

id	name	domain	department
3	John	Software Engineering	CSE
5	Riley	Android app technology	CSE

//updating mobileNumber of student where registration number is 22IT047

>>> UPDATE students set mobile_number = "8563429654" where registration_number = "22IT047";

//updating age of student where registration number is 22BM075

>>> UPDATE students set age = 20 where registration_number = "22BM075";

//updating year_of_batch of student where registration number is 21IS045

>>> UPDATE students set year_of_batch = 2022 where registration_number = "21|S045";

//deleting teacher records whose names are Robert, Mary and William

- >>> delete from teachers where name = "Robert";
- >>> delete from teachers where name = "Mary";
- >>> delete from teachers where name = "William";

//display all students

>>> select * from students;

id	name	age	mobile_number	registration_number	year_of_batch
1	Peyton List	19	8563429654	22IT047	2022
2	Harry	18	08642359186	21CS049	2021
3	Bebe Rexha	17	6383452127	22EE015	2023
4	Halsey	18	06425896153	21ME196	2021
5	Shawn	20	07536241053	22BM075	2022
6	Bieber	19	08634529753	21 S045	2022
7	Alex	19	09562067538	22RA035	2021
8	Khalid	19	7568234862	21AE123	2021
9	Drake	19	9997586754	22CI121	2022
10	Weekend	18	6583275862	21EC111	2023

//displau all teachers

>>> select * from teachers;

id	name	domain	department
3	John	Software Engineering	CSE
4	Shawn	Automation and machine vision	El
5	Riley	Android app technology	CSE
6	Susan	Nano technology	Physics
7	Mathew	Circuits	ECE
8	Michael	HealthCare Technologies	BME
9	Michaela	Artificial Intelligence	IT