**SQL DDL/DML Assignment**

1. create table LMS\_CUSTOMER\_M(

Customer\_ID varchar(20) NOT NULL,

First\_Name varchar(20) NOT NULL,

Last\_Name varchar(20),

Gender varchar(1) NOT NULL,

Date\_Of\_Birth Date NOT NULL,

Contact\_Number varchar(10) NOT NULL,

Email\_Address varchar(40) NOT NULL,

Monthly\_Income NUMBER(8,2) NOT NULL,

Profession varchar(40),

Total\_Monthly\_Expense NUMBER(8,2) NOT NULL,

Designation varchar(40), Company\_Name varchar(40)

);

1. create table LMS\_PRODUCT\_CATEGORY\_M (

Category\_ID VARCHAR(10) NOT NULL,

Category\_Name VARCHAR(50) NOT NULL,

Asset\_Based VARCHAR(1) NOT NULL check(Asset\_Based IN( 'Y', 'N')),

Description VARCHAR(150),

SecuredLoan VARCHAR(2) NOT NULL check(SecuredLoan IN('S', 'US'))

);

1. create table LMS\_Product\_M(

Product\_Code varchar(20) NOT NULL,

Product\_Name varchar(100) NOT NULL,

Product\_Description varchar(200),

Product\_Category varchar(10) NOT NULL,

Max\_Tenure Number(2),

Min\_Tenure Number(2)

);

1. create table LMS\_AGREEMENT\_DTL(

Agreement\_ID VARCHAR(20) NOT NULL,

Lessee\_ID VARCHAR(100) NOT NULL,

Tenure NUMBER(2),

ROI NUMBER(3,1),

Loan\_Amount NUMBER(10,2),

Repayment\_Frequency VARCHAR(2) check(Repayment\_Frequency IN('M', 'Y', 'Q', 'HY')),

Loan\_Disbursal\_Date DATE,

Status VARCHAR(10) CHECK(Status IN('Pending', 'Approved', 'Rejected', 'Active', 'Closed')),

Product\_Code VARCHAR(20) NOT NULL

);

1. create table LMS\_REPAYSCH\_DTL(

Agreement\_id varchar(20) NOT NULL,

PropInstID Number(8) GENERATED BY DEFAULT AS IDENTITY ,

Installment\_Amount Number(8,2) NOT NULL,

Installment\_Number Number(3) NOT NULL,

Principal\_Component Number(8,2) NOT NULL,

Interest\_Component Number(8,2) NOT NULL,

Balance\_Principal\_Amount Number(8,2) NOT NULL,

Penalty\_Charges Number(8,2),

Installment\_Due\_Date Date NOT NULL,

Constraint PK\_PropID primary key(PropInstID)

);

1. create table LMS\_TXNTYPE\_M (

Txn\_Type VARCHAR(20) NOT NULL CHECK(Txn\_Type IN('Installment', 'LPP')),

Description VARCHAR(100)

);

1. create table LMS\_TXN\_ADVICE\_DTL(

Txn\_Advice\_ID Number(8) GENERATED BY DEFAULT AS IDENTITY,

Advicement Number(8,2) NOT NULL,

AdvicementDate Date NOT NULL,

Case\_Id varchar(20) NOT NULL,

TxnID Number(8) NOT NULL,

TxnType Varchar(20) NOT NULL,

Constraint PK\_Txn\_ID primary key(Txn\_Advice\_ID));

1. create table LMS\_CHEQUE\_DTL(

Cheque\_Id NUMBER(8) UNIQUE KEY,

Payment\_Mode VARCHAR(1) CHECK(Payment\_Mode IN('C', 'Q', 'D', 'T')),

Cheque\_Num VARCHAR(50) CHECK(Cheque\_Num IN(

CASE Payment\_Mode WHEN ‘Q’ THEN ‘Cheque Number’,

WHEN ‘T’ THEN ‘Transfer Account Number’)),

Cheque\_Date DATE,

Cheque\_Amount NUMBER(10,2),

Drawn\_On\_Bank VARCHAR(50),

Deposit\_Date DATE,

Status VARCHAR(1) CHECK(Status IN('C', 'D', 'X', 'B'))

);

1. create table LMS\_PAYMENT\_DTL(

Payment\_ID Number(8) NOT NULL,

Cheque\_ID Number(8) NOT NULL,

Payment\_Date Date NOT NULL,

Status Varchar(1) NOT NULL CHECK(Status in ('C','N')),

Txn\_Advice\_Id Number(8) NOT NULL,

Constraint Unique\_ID189 unique (Payment\_ID),

Constraint Unique\_ID139 unique (Cheque\_ID)

);

1. desc LMS\_CUSTOMER\_M;

desc LMS\_PRODUCT\_CATEGORY\_M;

desc LMS\_Product\_M;

desc LMS\_PRODUCT\_CATEGORY\_M;

desc LMS\_REPAYSCH\_DTL;

desc LMS\_TXNTYPE\_M;

desc LMS\_TXN\_ADVICE\_DTL;

desc LMS\_CHEQUE\_DTL;

desc LMS\_PAYMENT\_DTL;

1. ALTER TABLE LMS\_CUSTOMER\_M ADD CONSTRAINT LMS\_CUSTOMER\_M\_PK PRIMARY KEY (Customer\_ID);

ALTER TABLE LMS\_PRODUCT\_CATEGORY\_M ADD CONSTRAINT LMS\_PRODUCT\_CAT\_M\_PK PRIMARY KEY (Category\_ID);

ALTER TABLE LMS\_PRODUCT\_M ADD CONSTRAINT LMS\_PRODUCT\_M\_PK PRIMARY KEY (Product\_Code);

ALTER TABLE LMS\_AGREEMENT\_DTL ADD LMS\_AGREEMENT\_DTL\_PK PRIMARY KEY (Agreement\_ID);

ALTER TABLE LMS\_REPAYSCH\_DTL ADD CONSTRAINT LMS\_REPAYSCH\_DTL\_PK PRIMARY KEY (PropInstID);

ALTER TABLE LMS\_TXNTYPE\_M ADD CONSTRAINT LMS\_TXNTYPE\_M\_PK PRIMARY KEY (TxnType);

ALTER TABLE LMS\_TXN\_ADVICE\_DTL ADD CONSTRAINT LMS\_TXN\_ADVICE\_DTL\_PK PRIMARY KEY (Txn\_Advice\_ID);

ALTER TABLE LMS\_CHEQUE\_DTL ADD CONSTRAINT LMS\_CHEQUE\_DTL\_PK PRIMARY KEY (Cheque\_ID);

ALTER TABLE LMS\_PAYMENT\_DTL ADD CONSTRAINT LMS\_PAYMENT\_DTL\_PK PRIMARY KEY (Payment\_ID);

1. ALTER TABLE LMS\_Agreement\_DTL ADD CONSTRAINT LMS\_Agreement\_Dtl\_FK1 FOREIGN KEY (Product\_Category) REFERENCES LMS\_Product\_Category\_M(Category\_ID);

**DML**

1. insert into CUSTOMER\_LMS\_M

values ('C101', 'Amit', 'Gupta', 'M', to\_date('10-Jan-88', 'DD-MON-RR'), 9876545678, 'amit.gupta@gmail.com', 50000, 'Service', 15000, 'Software Engineer', 'Nucleus');

1. insert into CUSTOMER\_LMS\_M (customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C102', 'Rekha', 'Arora', 'F', to\_date('8-Aug-76', 'DD-MON-RR'), 9878974561, 'arekha@gmail.com', 100000, 'Service', 40000, 'Project Manager', 'TCS');

1. SELECT \* FROM Customer
2. Create new SQL Worksheet  
   insert into Customer\_Lms\_M

values ('C103', 'Arun', 'Shabarwal', 'M', to\_date('9-Sep-78', 'DD-MON-RR'), 8989234123, 'arun.s@gmail.com', 80000, 'Self-Employed', 40000, 'Play School Owner', NULL);

save the file as “lab\_01\_04.sql”

1. insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C104', 'Mayank', 'Mittal', 'M', to\_date('20-Jan-87', 'DD-MON-RR'), 8978654563, 'mayank.mittal@gmail.com', 120000, 'Self-Employed', 60000, 'Fitness Trainer', NULL);

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C105', 'Kiran', 'Jain', 'F', to\_date('15-Aug-79', 'DD-MON-RR'), 8097652345, 'kiran.jain@gmail.com', 200000, 'Self-Employed', 80000, 'Chartered Accountant', NULL);

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C106', 'Sapna', 'Ranjan', 'F', to\_date('12-Jun-80', 'DD-MON-RR'), 9997865432, 'sapna.ranjan@gmail.com', 80000, 'Service', 30000, 'HR Manager', 'Wipro');

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C107', 'Geetika', 'Kumari', 'F', to\_date('2-Apr-89', 'DD-MON-RR'), 9011234568, 'geetika.kumari@gmail.com', 60000, 'Service', 25000, 'Sr. Software Engineer', 'IBM');

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C108', 'Puneet', 'Sharma', 'M', to\_date('19-Dec-70', 'DD-MON-RR'), 8878654321, 'puneet.sharma@gmail.com', 75000, 'Service', 30000, 'DBA', 'TerraData');

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C109', 'Pooja', 'Agarwal', 'F', to\_date('5-Oct-71', 'DD-MON-RR'), 7756789543, 'pooja.agarwal@gmail.com', 100000, 'Service', 35000, 'Technial Lead', 'IBM');

insert into Customer\_Lms\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C110', 'Sapan', 'Gupta', 'M', to\_date('10-Apr-88', 'DD-MON-RR'), 7987654422, 'sapan.gupta@gmail.com', 90000, 'Self-Employed', 40000, 'Interior Designer', NULL);

insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C111', 'Abhay', 'Singh', 'M', to\_date('17-May-82', 'DD-MON-RR'), 8932457654, 'abhay.singh@gmail.com', 45000, 'Self-Employed', 15000, 'Graphic Designer', NULL);

insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C112', 'Pulkit', 'Ahuja', 'M', to\_date('11-Apr-72', 'DD-MON-RR'), 9911456743, 'pulkit.ahuja@gmail.com', 60000, 'Self-Employed', 20000, 'Content Writer', NULL);

insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C113', 'Manju', 'Sharma', 'F', to\_date('13-Sep-72', 'DD-MON-RR'), 9999678954, 'manju.sharma@gmail.com', 125000, 'Service', 38000, 'Solution Consultant', 'Nucleus');

1. insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C114', 'Snehal', 'Tiwari', 'F', to\_date('26-Jan-74', 'DD-MON-RR'), 8769787654, 'snehal.tiwari@gmail.com', 100000, 'Service', 60000, 'Project Manager', 'Wipro');

insert into CUSTOMER\_LMS\_M(customer\_id, first\_name, last\_name, gender, date\_of\_birth, contact\_number, email\_address, monthly\_income, profession, total\_monthly\_expense, designation\_profession, company\_name)

values ('C115', 'Abhishek', 'Kumar', 'M', to\_date('2-Oct-69', 'DD-MON-RR'), 8134567890, 'abhishek.kumar@gmail.com', 230000, 'Self-Employed', 80000, 'Event Planner', NULL);

1. select \* from CUSTOMER\_LMS\_M;
2. commit;
3. insert into LMS\_PRODUCT\_CATEGORY\_M (category\_id, category\_name, asset\_based, description, secured\_loan)

values ('LN101', 'Home Loan', 'Y', NULL, 'S');

insert into LMS\_PRODUCT\_CATEGORY\_M (category\_id, category\_name, asset\_based, description, secured\_loan)

values ('LN102', 'Consumer Vehicle Loan', 'Y', NULL, 'S');

insert into LMS\_PRODUCT\_M (product\_code, product\_name, product\_description, product\_category, max\_tenure, min\_tenure)

values ('P101', 'Under-Construction', NULL, 'L101', 20, 10);

insert into LMS\_PRODUCT\_M (product\_code, product\_name, product\_description, product\_category, max\_tenure, min\_tenure)

values ('P102', 'Ready-to-move', NULL, 'L101', 20, 5);

insert into LMS\_AGREEMENT\_DTL (agreement\_id, lessee\_id, tenure, roi, loan\_amount, repayment\_frequency, loan\_disbursal\_date, status, product\_code)

values ('LN\_Home\_101', 'C101', 15, 8.5, 3000000, 'M', to\_date('10-Sep-18'), NULL, 'P101');

insert into LMS\_AGREEMENT\_DTL (agreement\_id, lessee\_id, tenure, roi, loan\_amount, repayment\_frequency, loan\_disbursal\_date, status, product\_code)

values ('LN\_Home\_102', 'C102', 17, 9, 4000000, 'M', to\_date('12-Aug-17'), NULL, 'P101');

insert into LMS\_REPAYSCH\_DTL (agreement\_id, propinstid, installment\_number, installment\_amount, prinicipal\_component, interest\_component, balance\_prinicpal\_amount, penalty\_charges, installment\_due\_date)

values ('LN\_Home\_101', 1001, 1, 29542.1867377678, 8292.186737767795, 21250.000000000004, 3000000.0, 0, to\_date('10-Oct-18', 'DD-MON-RR'));

insert into LMS\_REPAYSCH\_DTL (agreement\_id, propinstid, installment\_number, installment\_amount, prinicipal\_component, interest\_component, balance\_prinicpal\_amount, penalty\_charges, installment\_due\_date)

values ('LN\_Home\_101', 1002, 2, 29542.1867377678, 8350.923060493653, 21191.263677274146, 2991707.813262232, 0, to\_date('10-Nov-18', 'DD-MON-RR'));

insert into LMS\_TXNTYPE\_M (txn\_type, description)

values ('Installment', 'EMI to be paid per month for a particular Loan');

insert into LMS\_TXNTYPE\_M (txn\_type, description)

values ('LPP', 'In case Emi is not paid on time, the late charges inccurred on the same');

Insert into LMS\_TXN\_ADVICE\_M (txnadviceid\_pk, adviceamt, advicedate, caseid, txnid, txntype)

Values (1001, 29542.1867377678, to\_date('10-Oct-18'), 'LN\_Home\_101', 'P\_H101\_01', 'Installment');

insert into LMS\_TXN\_ADVICE\_M (txnadviceid\_pk, adviceamt, advicedate, caseid, txnid, txntype)

values (1002, 29542.1867377678, to\_date('10-Nov-18'), 'LN\_Home\_101', 'P\_H101\_02', 'Installment');

insert into LMS\_CHEQUE\_DTL (cheque\_id, payment\_mode, cheque\_num, cheque\_date, cheque\_amount, drawn\_on\_bank, deposit\_date, status)

Values (10001, 'Q', 34567878, to\_date('10-Oct-18'), 29542.1867377678, 'SBI', to\_date('10-Oct-18'), 'D');

insert into LMS\_CHEQUE\_DTL (cheque\_id, payment\_mode, cheque\_num, cheque\_date, cheque\_amount, drawn\_on\_bank, deposit\_date, status)

values (10002, 'Q', 34568900, to\_date('5-Nov-18'), 29542.1867377678, 'SBI', to\_date('5-Nov-18'), 'C');

1. a
2. a
3. s
4. delete from LMS\_AGREEMENT\_DTL\_ARMAAN where Loan\_Disbursal\_Date<to\_date('2000', 'YYYY');
5. commit;