

DBMS ASSIGNMENT-1

PROJECT-STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

ABSTRACT

Taking and giving money is happening in every sector. In manufacturing, if the buyer fails to make payment of the amount to the supplier, he shall be liable to pay compound interest with monthly rests to the supplier on the amount from the appointed day or, on the date agreed on, at three times of the Bank Rate notified by Reserve Bank. This may not be applicable in all the sectors. Following the policy of legally seizing the property, both the lender and borrower will get advantage. Borrower can buy his lost property again and the lender can get his money recovered. The lender sets the deadline for the borrower to return the money along with interest. If the borrower does not make payment on a timely basis, he will receive notice in the form of letter or mail or a text message. If the borrower does not return the money the lender owes, even after receiving reminders, the lender has the right to legally take his/her property.

DBMS Assignment 1

Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

REQUIREMENTS:

Tables required - 7

- Lender
- Borrower
- Lender_Borrower
- Borrower_notices
- Notices
- Property
- Lender_Property

ENTITY	ATTRIBUTES	DOMAIN
Lender	i.Name ii.Lender_id iii.Contact_no iv.Money_lent v.Deadline	Varchar2(10) Number(10) Number(20) Number(30) Date
Borrower	i.Name ii.Payment_id iii.Contact_no iv. Address v. Payment_status vi. Profession	Varchar2(10) Number(10) Number(10) Varchar2(20) Varchar2(10) Varchar2(15)
Lender_Borrower	i. Lender_id ii.Payment_id iii.Day	Number(10) Number(10) Date
Borrower_notices	i. Payment_id ii.Mail_id iii.Conformation iv.Date_received	Number(10) Varchar2(30) Varchar2(20) Date
Property	i.Ownership ii.Value iii.Acres iv.Location	Varchar2(10) Number(15) Number(10) Varchar2(20)
Notices	i.Mail_id ii. Contact_info iii.Days_delayed	Varchar2(30) Number(15) Number(10)
Lender_property	i.Lender_id ii.Ownership iii.date_siezed	Number(10) Varchar2(20) date

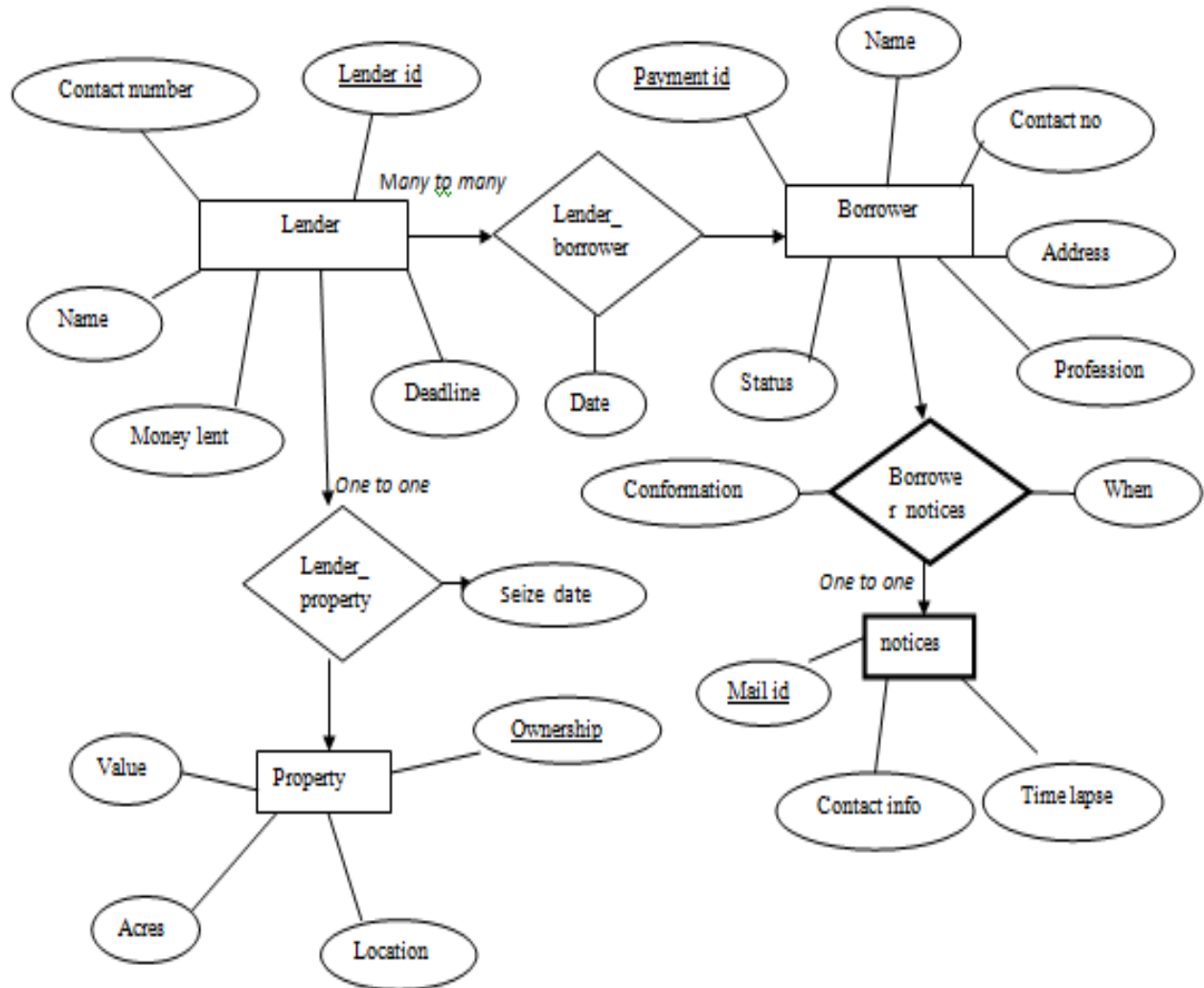
MAPPING CARDINALITIES AND PARTICIPATION
CONSTRAINTS:

- The lender and borrower has many to many relationship which means any number of persons can lend money to any other persons and it has partial participation because it is not compulsory that all lenders can give money or all borrowers receive money.
- The lender and property has one to one relationship because if a borrower delays to make payment within stipulated time, the lender can legally take his/her property. This relationship is also partial participation as all lenders may not seize the properties.
- The borrower and notice has one to one relationship as one borrower gets only one message regarding his/her delay payment and it is obvious partial participation as all borrowers do not get the remainder.

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ENTITY RELATIONSHIP MODEL




DDL COMMANDS: (DATA DEFINITION LANGUAGE)

1.CREATE

2.ALTER

3.DROP

 Run SQL Command Line

```
SQL> create table lender(  
  2  name varchar2(10),  
  3  lender_id number(10) primary key,  
  4  contact_no number(20),  
  5  money_lent number(30),  
  6  deadline date);
```

Table created.

```
SQL> create table borrower(  
  2  name varchar2(10),  
  3  payment_id number(10),  
  4  contact_no number(10),  
  5  address varchar2(20),  
  6  payment_sttaus varchar2(10),  
  7  profession varchar2(15));
```


Table created.

```
SQL> alter table borrower modify(primary key(payment_id));
```


Table altered.

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 Run SQL Command Line

```
SQL> create table lender_property(  
  2  lender_id number(10),  
  3  ownership varchar2(20),  
  4  foreign key(ownership) references property,  
  5  foreign key(lender_id) references lender);  
  
Table created.  
  
SQL>
```

 Run SQL Command Line

```
SQL> create table notices(  
  2  mail_id varchar2(30),  
  3  contact_info number(15),  
  4  days_delayed number(10),  
  5  primary key(mail_id));  
  
Table created.  
  
SQL> create table borrower_notices(  
  2  payment_id number(10),  
  3  mail_id varchar2(30),  
  4  conformation varchar2(20),  
  5  date_received date,  
  6  foreign key(payment_id) references borrower,  
  7  foreign key(mail_id) references notices);  
  
Table created.
```

```
SQL> create table property(  
  2  ownership varchar2(20) primary key,  
  3  value number(15),  
  4  acres number(10),  
  5  location varchar2(20));
```

  Search the web and your PC

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Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

```
SQL> create table lender_borrower(  
  2  lender_id number(10),  
  3  payment_id number(10),  
  4  day date,  
  5  foreign key(lender_id) references lender,  
  6  foreign key(payment_id) references borrower  
Table created.
```

```
SQL>
```



Search the web and your PC



```
SQL> drop table receives;  
Table dropped.  
SQL> drop table legally_takes;  
Table dropped.  
SQL> drop table gives_money;  
Table dropped.  
SQL> drop table lender;  
Table dropped.  
SQL> drop table borrower;  
Table dropped.  
SQL> drop table notices;  
Table dropped.
```

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Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

Run SQL Command Line

SQL> desc lender;

Name	Null?	Type
NAME		VARCHAR2(10)
LENDER_ID	NOT NULL	NUMBER(10)
CONTACT_NO		NUMBER(20)
MONEY Lent		NUMBER(30)
DEADLINE		DATE

SQL> desc borrower;

Name	Null?	Type
NAME		VARCHAR2(10)
PAYMENT_ID	NOT NULL	NUMBER(10)
CONTACT_NO		NUMBER(10)
ADDRESS		VARCHAR2(20)
PAYMENT STTAUS		VARCHAR2(10)
PROFESSION		VARCHAR2(15)

SQL> desc lender_borrower;

Name	Null?	Type
LENDER_ID		NUMBER(10)
PAYMENT_ID		NUMBER(10)
DAY		DATE

SQL> desc notices;

Name	Null?	Type
MAIL_ID	NOT NULL	VARCHAR2(30)
CONTACT_INFO		NUMBER(15)
DAYS_DELAYED		NUMBER(10)

SQL> desc borrower_notices;

Name	Null?	Type
PAYMENT_ID		NUMBER(10)
MAIL_ID		VARCHAR2(30)
CONFORMATION		VARCHAR2(20)
DATE_RECEIVED		DATE

Activate Wind

Run SQL Command Line

SQL> desc property;

Name	Null?	Type
OWNERSHIP	NOT NULL	VARCHAR2(20)
VALUE		NUMBER(15)
ACRES		NUMBER(10)
LOCATION		VARCHAR2(20)

SQL> desc lender_property;

Name	Null?	Type
LENDER_ID		NUMBER(10)
OWNERSHIP		VARCHAR2(20)

SQL>

DML COMMANDS: (DATA MANIPULATION LANGUAGE

1.INSERT

2.UPDATE

3.DELETE

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```
SQL> insert into lender values('Ram',6021,9949123450,20000,'01-MAR-2020');
1 row created.

SQL> insert into lender values('Rekha',6022,8912349012,15000,'02-MAR-2020');
1 row created.

SQL> insert into lender values('Keerthi',6023,8166664511,23200,'01-MAR-2020');
1 row created.

SQL> insert into lender values('Srinivas',6024,6305231001,18000,'04-MAR-2020');
1 row created.

SQL> insert into lender values('Gopal',6025,8542779912,15500,'03-MAR-2020');
1 row created.

SQL> insert into lender values('Ramesh',6026,9111223412,16000,'02-MAR-2020');
1 row created.

SQL> insert into lender values('Kavita',6027,9881234510,17600,'03-MAR-2020');
1 row created.

SQL> insert into lender values('Ramesh',6028,9000123410,18020,'05-MAR-2020');
1 row created.

SQL> select * from lender;
```

NAME	LENDER_ID	CONTACT_NO	MONEY_LENT	DEADLINE
Ram	6021	9949123450	20000	01-MAR-20
Rekha	6022	8912349012	15000	02-MAR-20
Keerthi	6023	8166664511	23200	01-MAR-20
Srinivas	6024	6305231001	18000	04-MAR-20
Gopal	6025	8542779912	15500	03-MAR-20
Ramesh	6026	9111223412	16000	02-MAR-20
Kavita	6027	9881234510	17600	03-MAR-20
Ramesh	6028	9000123410	18020	05-MAR-20

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Run SQL Command Line

```
SQL> insert into lender values('Keerthi',6023,8166664511,23200,'01-MAR-2020');
1 row created.

SQL> insert into lender values('Srinivas',6024,6305231001,18000,'04-MAR-2020');
1 row created.

SQL> insert into lender values('Gopal',6025,8542779912,15500,'03-MAR-2020');
1 row created.

SQL> insert into lender values('Ramesh',6026,9111223412,16000,'02-MAR-2020');
1 row created.

SQL> insert into lender values('Kavita',6027,9881234510,17600,'03-MAR-2020');
1 row created.

SQL> insert into lender values('Ramesh',6028,9000123410,18020,'05-MAR-2020');
1 row created.

SQL> select * from lender;

NAME          LENDER_ID CONTACT_NO MONEY_LENT DEADLINE
-----
Ram            6021  9949123450      20000 01-MAR-20
Rekha          6022  8912349012      15000 02-MAR-20
Keerthi        6023  8166664511      23200 01-MAR-20
Srinivas       6024  6305231001      18000 04-MAR-20
Gopal          6025  8542779912      15500 03-MAR-20
Ramesh         6026  9111223412      16000 02-MAR-20
Kavita         6027  9881234510      17600 03-MAR-20
Ramesh         6028  9000123410      18020 05-MAR-20

8 rows selected.
```

```
SQL> insert into lender_borrower values(6022,1033,'13-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6021,1033,'13-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6021,1035,'14-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6024,1037,'15-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6027,1032,'14-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6022,1035,'14-FEB-2020');
1 row created.

SQL> insert into lender_borrower values(6026,1039,'15-FEB-2020');
1 row created.
```

```
SQL> select * from lender_borrower;

LENDER_ID PAYMENT_ID DAY
-----
6022       1033 13-FEB-20
6021       1033 13-FEB-20
6021       1035 14-FEB-20
6024       1037 15-FEB-20
6027       1032 14-FEB-20
6022       1035 14-FEB-20
6026       1039 15-FEB-20
6025       1034 16-FEB-20
6023       1036 13-FEB-20
6028       1037 15-FEB-20

10 rows selected.
```

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Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

Run SQL Command Line

```
SQL> insert into property values('Priyas mother',200000,5,'Banjara hills');
1 row created.

SQL> insert into property values('Suresh',50000,2,'LB Nagar');
1 row created.

SQL> insert into property values('Kims father',150000,1,'Secundrabad');
1 row created.

SQL> insert into property values('Jones mother',30000,4,'Uppal');
1 row created.

SQL> insert into property values('Nick',50000,2,'Ibrahimbagh');
1 row created.

SQL> insert into property values('Sidras uncle',300000,6,'langarhouse');
1 row created.

SQL> insert into property values('Edward',500000,4,'Madhapur');
1 row created.

SQL> insert into property values('Ellis mother',35000,7,'Hitec city');
1 row created.

SQL> insert into property values('Moor',400000,1,'Jubilee hills');
1 row created.
```

```
SQL> select * from property;
```

OWNERSHIP	VALUE	ACRES	LOCATION
Priyas mother	200000	5	Banjara hills
Suresh	50000	2	LB Nagar
Kims father	150000	1	Secundrabad
Jones mother	30000	4	Uppal
Nick	50000	2	Ibrahimbagh
Sidras uncle	300000	6	langarhouse
Edward	500000	4	Madhapur
Ellis mother	35000	7	Hitec city
Moor	400000	1	Jubilee hills

9 rows selected.

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Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

```
SQL> insert into lender_property values(6021,'Nick');
1 row created.
SQL> insert into lender_property values(6026,'Nick');
1 row created.
SQL> insert into lender_property values(6023,'Sidras uncle');
1 row created.
SQL> insert into lender_property values(6024,'Edward');
1 row created.
SQL> insert into lender_property values(6028,'Edward');
1 row created.
SQL> select * from lender_property;
LENDER_ID OWNERSHIP
-----
6027 Suresh
6021 Nick
6026 Nick
6023 Sidras uncle
6024 Edward
6028 Edward
6 rows selected.
```

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```
Run SQL Command Line
SQL> insert into notices values('kimyaho@gmail.com',7231001781,2);
1 row created.
SQL> insert into notices values('jonesabraham@gmail.com',6541230912,3);
1 row created.
SQL> insert into notices values('nickvijncic@gmail.com',7891425161,5);
1 row created.
SQL> insert into notices values('Sidrasandy@gmail.com',8713242560,6);
1 row created.
SQL> insert into notices values('Edward345@gmail.com',9999917261,10);
1 row created.
SQL> insert into notices values('Ellis23@gmail.com',8761526267,12);
1 row created.
SQL> insert into notices values('moormagic@gmail.com',6301112827,12);
1 row created.
SQL> select * from notices;
MAIL_ID          CONTACT_INFO DAYS_DELAYED
-----
priya.123@gmail.com  9010121331      10
sureshreddy@gmail.com 9812344108       8
kimyaho@gmail.com    7231001781       2
jonesabraham@gmail.com 6541230912       3
nickvijncic@gmail.com 7891425161       5
Sidrasandy@gmail.com 8713242560       6
Edward345@gmail.com  9999917261      10
Ellis23@gmail.com    8761526267      12
moormagic@gmail.com  6301112827      12
9 rows selected.
```

DBMS Assignment 1

Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

```
SQL> insert into lender_property values(6021,'Nick');
1 row created.

SQL> insert into lender_property values(6026,'Nick');
1 row created.

SQL> insert into lender_property values(6023,'Sidras uncle');
1 row created.

SQL> insert into lender_property values(6024,'Edward');
1 row created.

SQL> insert into lender_property values(6028,'Edward');
1 row created.

SQL> select * from lender_property;

LENDER_ID OWNERSHIP
-----
6027 Suresh
6021 Nick
6026 Nick
6023 Sidras uncle
6024 Edward
6028 Edward

6 rows selected.
```

```
SQL> insert into borrower_notices values(1032,'sureshreddy@gmail.com','received','27-FEB-2020');
1 row created.

SQL> insert into borrower_notices values(1035,'nickvijncic@gmail.com','received','12-FEB-2020');
1 row created.

SQL> insert into borrower_notices values(1036,'Sidrasandy@gmail.com','received','26-FEB-2020');
1 row created.

SQL> insert into borrower_notices values(1037,'Edward345@gmail.com','received','27-FEB-2020');
1 row created.

SQL> select * from borrower_notices;

PAYMENT_ID MAIL_ID CONFORMATION DATE_RECE
-----
1032 sureshreddy@gmail.com received 27-FEB-20
1035 nickvijncic@gmail.com received 12-FEB-20
1036 Sidrasandy@gmail.com received 26-FEB-20
1037 Edward345@gmail.com received 27-FEB-20
```


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```
SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6027;
Enter value for date_siezed:
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6027
new 1: update lender_property set date_siezed='' where lender_id=6027

1 row updated.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6028;
Enter value for date_siezed: 02-mar-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6028
new 1: update lender_property set date_siezed='02-MAR-2020' where lender_id=6028

1 row updated.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6021;
Enter value for date_siezed: 02-MAR-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6021
new 1: update lender_property set date_siezed='02-MAR-2020' where lender_id=6021

1 row updated.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6026;
Enter value for date_siezed: 03-MAR-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6026
new 1: update lender_property set date_siezed='03-MAR-2020' where lender_id=6026

1 row updated.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6023;
Enter value for date_siezed: 04-mar-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6023
new 1: update lender_property set date_siezed='04-mar-2020' where lender_id=6023

1 row updated.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6024;
Enter value for date_siezed: 01-MAR-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6024
new 1: update lender_property set date_siezed='01-MAR-2020' where lender_id=6024

1 row updated.
```


DBMS Assignment 1

Title:- STRICT POLICIES FOR RECOVERY OF DELAY PAYMENT

```
SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6024;
Enter value for date_siezed: 01-MAR-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6024
new 1: update lender_property set date_siezed='01-MAR-2020' where lender_id=6024

1 row updated.

SQL> select * from lender_property;

LENDER_ID OWNERSHIP          DATE_SIEZ
-----
6027 Suresh
6021 Nick                    02-MAR-20
6026 Nick                    03-MAR-20
6023 Sidras uncle           04-MAR-20
6024 Edward                  01-MAR-20
6028 Edward                  02-MAR-20

6 rows selected.

SQL> update lender_property set date_siezed='&date_siezed' where lender_id=6027;
Enter value for date_siezed: 02-MAR-2020
old 1: update lender_property set date_siezed='&date_siezed' where lender_id=6027
new 1: update lender_property set date_siezed='02-MAR-2020' where lender_id=6027

1 row updated.

SQL> select * from lender_property;

LENDER_ID OWNERSHIP          DATE_SIEZ
-----
6027 Suresh                    02-MAR-20
6021 Nick                      02-MAR-20
6026 Nick                      03-MAR-20
6023 Sidras uncle              04-MAR-20
6024 Edward                    01-MAR-20
6028 Edward                    02-MAR-20

6 rows selected.
```