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Statement 1

```
create table borrower(roll_no int primary key,name varchar(50),date_of_issue date,name_of_book varchar(50),status varchar(10))
```

Table created.

Statement 2

```
desc borrower
```

TABLE BORROWER

Column	Null?	Type
ROLL_NO	NOT NULL	NUMBER
NAME	-	VARCHAR2(50)
DATE_OF_ISSUE	-	DATE
NAME_OF_BOOK	-	VARCHAR2(50)
STATUS	-	VARCHAR2(10)

Download CSV

5 rows selected.

Statement 3

```
create table Fine(roll_no int,date_f date,amt float,foreign key(roll_no) references borrower(roll_no))
```

Table created.

Statement 4

```
Desc Fine
```

TABLE FINE

Column	Null?	Type
ROLL_NO	-	NUMBER
DATE_F	-	DATE
AMT	-	FLOAT(126)

Download CSV

3 rows selected.

Statement 5

```
insert into borrower values(1,'Ravindra','10-FEB-2023','TOC','I')
```

1 row(s) inserted.

Statement 6

```
insert into borrower values(2,'Abhishek','01-JUNE-2023','DBMS','I')
```

1 row(s) inserted.

Statement 7



```
insert into borrower values(3,'Shardul','01-JULY-2023','DBMS','I')
```

1 row(s) inserted.

Statement 8



```
insert into borrower values(4,'Bhavik','11-SEP-2023','IOT','I')
```

1 row(s) inserted.

Statement 9



```
insert into borrower values(5,'Pawan','15-SEP-2023','SPOS','I')
```

1 row(s) inserted.

Statement 10



```
select * from borrower
```

ROLL_NO	NAME	DATE_OF_ISSUE	NAME_OF_BOOK	STATUS
1	Ravindra	10-FEB-23	TOC	I
2	Abhishek	01-JUN-23	DBMS	I
3	Shardul	01-JUL-23	DBMS	I
4	Bhavik	11-SEP-23	IOT	I
5	Pawan	15-SEP-23	SPOS	I

[Download CSV](#)

5 rows selected.

Statement 11



```
select * from Fine
```

no data found

Statement 12



```
declare
rno int:=1;
Fine_amt float:=0;
DOI date;
No_of_Days int;
book_name varchar2(50):='TOC';
R_no exception;

begin
if rno <=0 THEN
    RAISE R_no;
END IF;

select Date_of_Issue into DOI from borrower where Roll_no=rno;
No_of_Days := sysdate - DOI;

if (No_of_Days > 15 and No_of_Days<30) THEN
    Fine_amt:=No_of_Days*5;

elsif no_of_days>30 THEN
    Fine_amt:=(15*5)+(No_of_Days-30)*50;
end if;

update borrower set status='R' where Roll_no=rno;

if (Fine_amt>0) then
insert into Fine values(rno,sysdate,Fine_amt);
end if;

exception
when R_no then dbms_output.put_line('Roll No can not be less than 0');
when no_data_found then dbms_output.put_line('Invalid Roll No');
```

```
when others then dbms_output.put_line('Other Exception');
```

Statement processed.

Statement 13



```
select * from Fine
```

ROLL_NO	DATE_F	AMT
1	19-SEP-23	9675

Download CSV

Statement 14



```
select * from borrower
```

ROLL_NO	NAME	DATE_OF_ISSUE	NAME_OF_BOOK	STATUS
1	Ravindra	10-FEB-23	TOC	R
2	Abhishek	01-JUN-23	DBMS	I
3	Shardul	01-JUL-23	DBMS	I
4	Bhavik	11-SEP-23	IOT	I
5	Pawan	15-SEP-23	SPOS	I

Download CSV

5 rows selected.

Statement 15



```
declare
rno int:=5;
Fine_amt float:=0;
DOI date;
No_of_Days int;
book_name varchar2(50):='TOC';
R_no exception;

begin
if rno <=0 THEN
    RAISE R_no;
END IF;

select Date_of_Issue into DOI from borrower where Roll_no=rno;
No_of_Days := sysdate - DOI;

if (No_of_Days > 15 and No_of_Days<30) THEN
    Fine_amt:=No_of_Days*5;

elsif no_of_days>30 THEN
    Fine_amt:=(15*5)+(No_of_Days-30)*50;
end if;

update borrower set status='R' where Roll_no=rno;

if (Fine_amt>0) then
insert into Fine values(rno,sysdate,Fine_amt);
end if;

exception
when R_no then dbms_output.put_line('Roll No can not be less than 0');
when no_data_found then dbms_output.put_line('Invalid Roll No');
when others then dbms_output.put_line('Other Exception');
end;
```

Statement processed.

Statement 16



```
select * from Fine
```

ROLL_NO	DATE_F	AMT
1	19-SEP-23	9675

[Download CSV](#)

Statement 17



```
select * from borrower
```

ROLL_NO	NAME	DATE_OF_ISSUE	NAME_OF_BOOK	STATUS
1	Ravindra	10-FEB-23	TOC	R
2	Abhishek	01-JUN-23	DBMS	I
3	Shardul	01-JUL-23	DBMS	I
4	Bhavik	11-SEP-23	IOT	I
5	Pawan	15-SEP-23	SPOS	R

[Download CSV](#)

5 rows selected.

Statement 18



```

declare
rno int:=1;
Fine_amt float:=0;
DOI date;
No_of_Days int;
book_name varchar2(50):='TOC';
R_no exception;

begin
if rno <=0 THEN
    RAISE R_no;
END IF;

select Date_of_Issue into DOI from borrower where Roll_no=rno;
No_of_Days := sysdate - DOI;

if (No_of_Days > 15 and No_of_Days<30) THEN
Fine_amt:=No_of_Days*5;

elsif no_of_days>30 THEN
Fine_amt:=(15*5)+(No_of_Days-30)*50;
end if;

update borrower set status='R' where Roll_no=rno;

if (Fine_amt>0) then
insert into Fine values(rno,sysdate,Fine_amt);
end if;

exception
when R_no then dbms_output.put_line('Roll No can not be less than 0');
when no_data_found then dbms_output.put_line('Invalid Roll No');
when others then dbms_output.put_line('Other Exception');
end;

```

Statement processed.
Roll No can not be less than 0

Statement 19



```

declare
rno int:=7;
Fine_amt float:=0;
DOI date;
No_of_Days int;
book_name varchar2(50):='TOC';

```

```
R_no exception;

begin
if rno <=0 THEN
    RAISE R_no;
END IF;

select Date_of_Issue into DOI from borrower where Roll_no=rno;
No_of_Days := sysdate - DOI;

if (No_of_Days > 15 and No_of_Days<30) THEN
Fine_amt:=No_of_Days*5;

elsif no_of_days>30 THEN
Fine_amt:=(15*5)+(No_of_Days-30)*50;
end if;

update borrower set status='R' where Roll_no=rno;

if (Fine_amt>0) then
insert into Fine values(rno,sysdate,Fine_amt);
end if;

exception
when R_no then dbms_output.put_line('Roll No can not be less than 0');
when no_data_found then dbms_output.put_line('Invalid Roll No');
when others then dbms_output.put_line('Other Exception');

Statement processed.
Invalid Roll No
```