
ROLL NO : 39055

- ```

SQL Plus
Enter user-name: sys as sysdba
Enter password:

Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL> create table borrower(
 2 rollin integer not null primary key,
 3 name varchar2(20),
 4 dateofissue date,
 5 nameofbook varchar2(20),
 6 status char
 7);

Table created.

SQL> describe borrower;

```
- | Name        | Null?    | Type         |
|-------------|----------|--------------|
| ROLLIN      | NOT NULL | NUMBER(38)   |
| NAME        |          | VARCHAR2(20) |
| DATEOFISSUE |          | DATE         |
| NAMEOFBOOK  |          | VARCHAR2(20) |
| STATUS      |          | CHAR(1)      |

```
SQL> create table fine(
2 roll_number integer not null primary key,
3 fdate date,
4 amt integer);

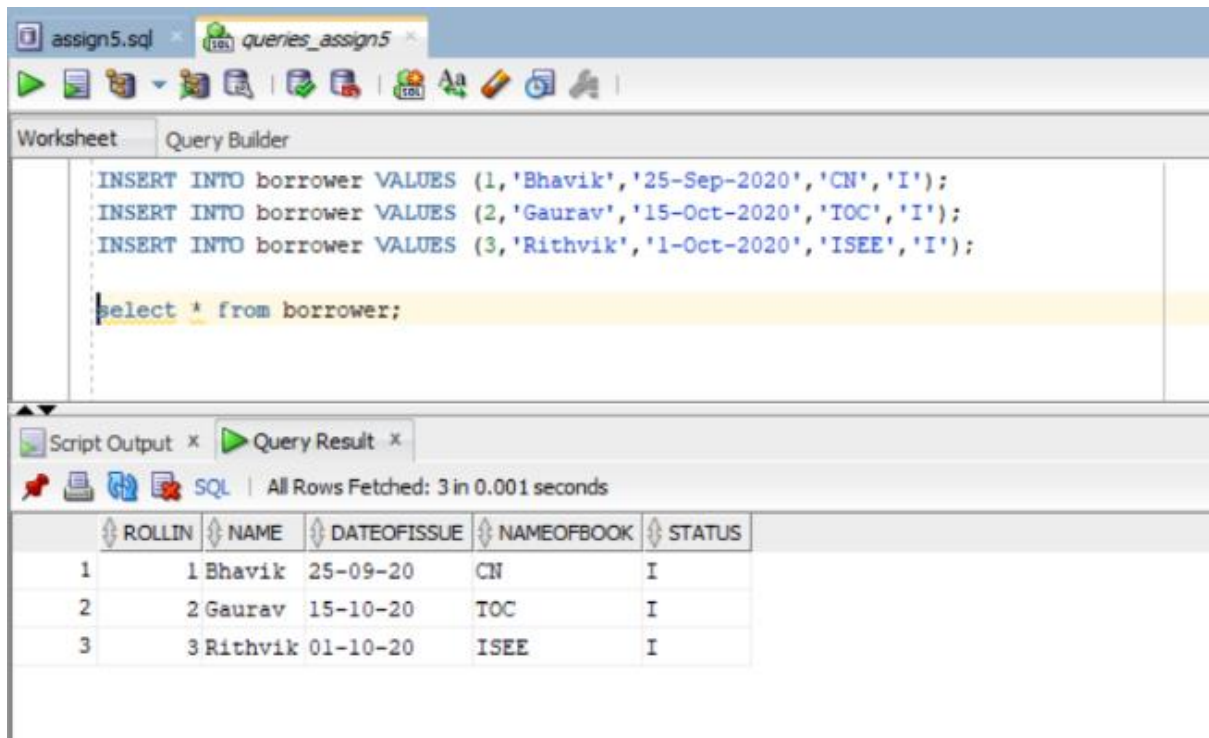
Table created.

SQL> describe fine;
```

| Name        | Null?    | Type       |
|-------------|----------|------------|
| ROLL_NUMBER | NOT NULL | NUMBER(38) |
| FDATE       |          | DATE       |
| AMT         |          | NUMBER(38) |

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- Inserting Values into borrower:



The screenshot shows a SQL query editor with the following code:

```
INSERT INTO borrower VALUES (1, 'Bhavik', '25-Sep-2020', 'CN', 'I');
INSERT INTO borrower VALUES (2, 'Gaurav', '15-Oct-2020', 'TOC', 'I');
INSERT INTO borrower VALUES (3, 'Rithvik', '1-Oct-2020', 'ISEE', 'I');

select * from borrower;
```

Below the editor, the 'Query Result' pane displays the following table:

| ROLLIN | NAME      | DATEOFISSUE | NAMEOFBOOK | STATUS |
|--------|-----------|-------------|------------|--------|
| 1      | 1 Bhavik  | 25-09-20    | CN         | I      |
| 2      | 2 Gaurav  | 15-10-20    | TOC        | I      |
| 3      | 3 Rithvik | 01-10-20    | ISEE       | I      |

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- Running following script :

```
SET SERVEROUTPUT ON;
```

```
declare
```

```
 roll_no integer := &roll_no;
```

```
 issuedate date;
```

```
 amount integer := 0;
```

```
 name_of_book varchar2(20) := '&nameofbook';
```

```
 days integer := 0;
```

```
begin
```

```
 select dateofissue into issuedate
```

```
 from borrower
```

```
 where rollin = roll_no
```

```
 and
```

```
 nameofbook = name_of_book;
```

```
 days := sysdate-issuedate;
```

```
 if days < 30 then
```

```
 if days > 15 then
```

```

amount := 5*days;
insert into fine values(roll_no, sysdate , amount);

commit;
end if;

elsif days > 30 then

amount := 50*days;
insert into fine values(roll_no, sysdate , amount);

commit;
end if;

update borrower set status = 'R'
 where rollin = roll_no
 and
 nameofbook = name_of_book;

commit;

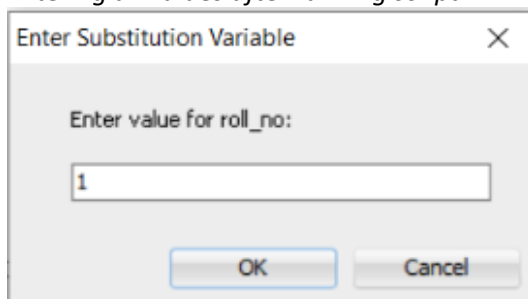
EXCEPTION
 when no_data_found then
 dbms_output.put_line('Record not found ...!');
end;

```

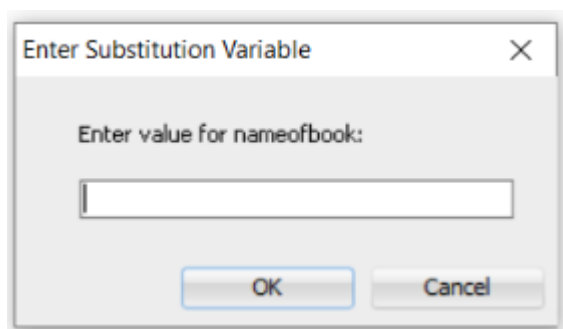
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## OUTPUT:

*Entering all values after running script :-*



A screenshot of a 'Enter Substitution Variable' dialog box. The title bar says 'Enter Substitution Variable' with a close button (X). The main text says 'Enter value for roll\_no:'. Below this is a text input field containing the number '1'. At the bottom are two buttons: 'OK' and 'Cancel'.



A screenshot of a 'Enter Substitution Variable' dialog box. The title bar says 'Enter Substitution Variable' with a close button (X). The main text says 'Enter value for nameofbook:'. Below this is an empty text input field. At the bottom are two buttons: 'OK' and 'Cancel'.

```
Script Output x
Task completed in 0.026 seconds

EXCEPTION
 when no_data_found then
 dbms_output.put_line('Record not found....!');
end;

PL/SQL procedure successfully completed.
```

**Borrower table updated (With status R):**

```
select * from borrower;
```

|   | ROLLIN | NAME    | DATEOFISSUE | NAMEOFBOOK | STATUS |
|---|--------|---------|-------------|------------|--------|
| 1 | 1      | Bhavik  | 25-09-20    | CN         | R      |
| 2 | 2      | Gaurav  | 15-10-20    | TOC        | R      |
| 3 | 3      | Rithvik | 01-10-20    | ISEE       | R      |

**Fine table :**

```
select * from fine;
```

|   | ROLL_NUMBER | FDATE    | AMT |
|---|-------------|----------|-----|
| 1 | 3           | 24-10-20 | 120 |

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