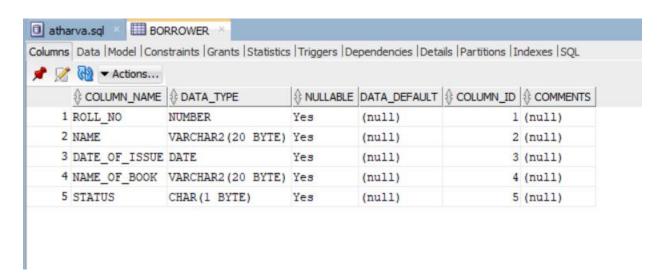
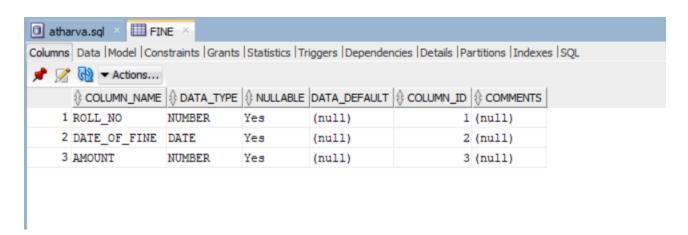
DBMS LAB CHIT SOLUTIONS

(1) Chit 2 -

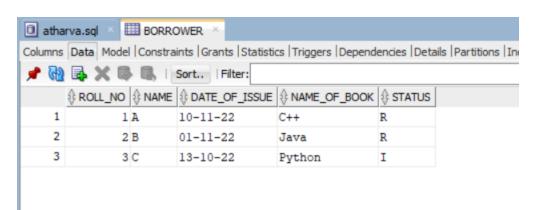
Borrower Table

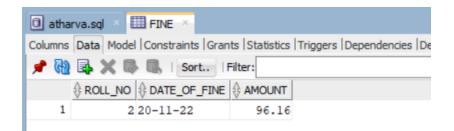


Fine Table



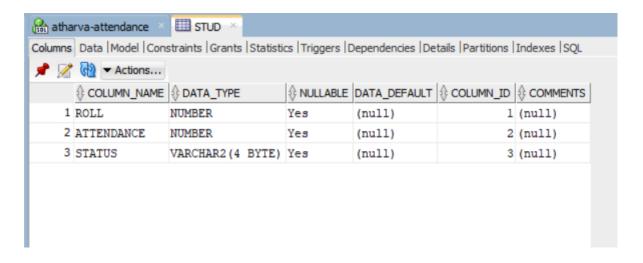
```
atharva.sql × BORROWER
SQL Worksheet History
Worksheet Query Builder
     SET SERVEROUTPUT ON
   ■ DECLARE
        rno NUMBER;
         nob VARCHAR (20);
        nodays NUMBER;
        doi DATE;
         amount NUMBER (10, 2);
     BEGIN
        rno := &rno;
         nob := 'snob';
         SELECT DATE_OF_ISSUE INTO doi FROM BORROWER WHERE ROLL_NO = rno AND NAME_OF_BOOK = nob;
         nodays := sysdate - doi;
         IF (nodays >= 15 AND nodays < 30) THEN
        amount := nodays * 5;
         ELSIF (nodays > 30) THEN
         amount := nodays * 50;
         DBMS_OUTPUT.PUT_LINE('NO FINE');
         END IF;
         IF (nodays >= 15) THEN
         INSERT INTO FINE VALUES (rno, sysdate, amount);
         UPDATE BORROWER SET STATUS = 'R' WHERE ROLL NO = rno AND NAME OF BOOK = nob;
     EXCEPTION
         WHEN no_data_found THEN
         DBMS_OUTPUT.PUT_LINE('NO RECORD PRESENT');
         WHEN others THEN
         DBMS_OUTPUT.PUT_LINE('ERROR');
     END;
```



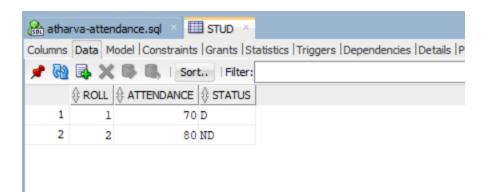


(2) Chit 3 -

Student Table

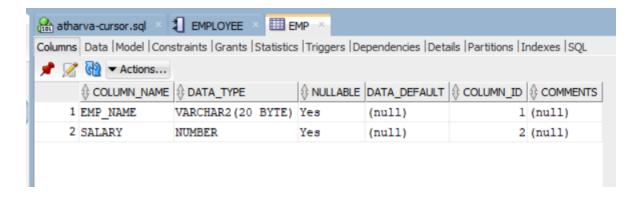


```
atharva-attendance.sql × III STUD
Worksheet Query Builder
     SET SERVEROUTPUT ON
   ■ DECLARE
        rno NUMBER;
        att NUMBER;
        status VARCHAR(4);
     BEGIN
        rno := &rno;
        att := &att;
       IF(att > 75) THEN
        DBMS_OUTPUT.PUT_LINE('TERM GRANTED');
       status := 'ND';
        DBMS_OUTPUT.PUT_LINE('TERM NOT GRANTED');
        status := 'D';
        END IF;
         INSERT INTO STUD VALUES (rno, att, status);
     EXCEPTION
        WHEN no_data_found THEN
         DBMS_OUTPUT.PUT_LINE('NO RECORD PRESENT');
         WHEN others THEN
         DBMS OUTPUT.PUT LINE('ERROR');
     END;
```



(3) Chit 5 -

EMP Table



EMPLOYEE Cursor

```
atharva-cursor.sql 2 EMPLOYEE *
Code | Grants | References | Profiles | Dependencies | Errors | Details
CREATE OR REPLACE PROCEDURE EMPLOYEE
       SAL IN NUMBER
      ) AS
      CURSOR EMP CURSOR IS SELECT EMP NAME, SALARY FROM EMP;
      emp name EMP.EMP NAME%TYPE;
      salary EMP.SALARY%TYPE;
      temp EMP%ROWTYPE;
      BEGIN
         OPEN EMP_CURSOR;
         LOOP
             FETCH EMP_CURSOR INTO emp_name, salary;
             EXIT WHEN EMP CURSOR NOTFOUND;
              IF (salary < SAL) THEN
                 DBMS_OUTPUT.PUT_LINE(emp_name || ' ' || salary);
              END IF;
          END LOOP:
          CLOSE EMP_CURSOR;
      END EMPLOYEE;
```

```
atharva-cursor.sql *

Worksheet Query Builder

SET SERVEROUTPUT ON;

DECLARE

sal EMP.SALARY&TYPE;

BEGIN

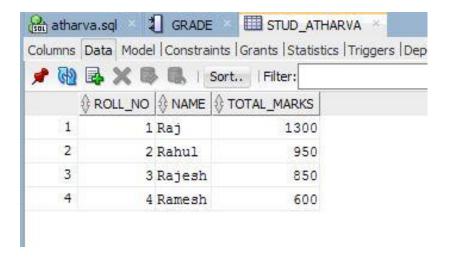
sal := &sal;

EMPLOYEE (sal);

END;
```

(4) Chit 6 -

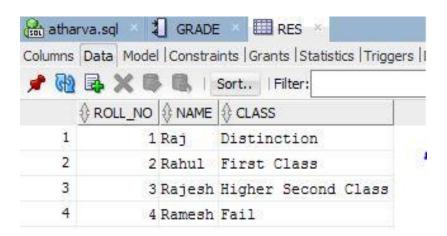
STUDENT Table



Stored Procedure

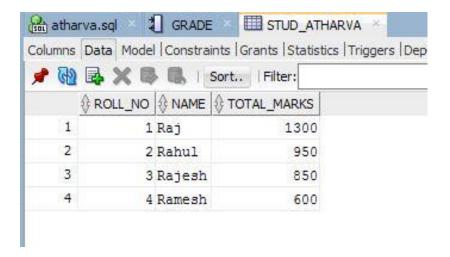
```
atharva-stored-function-and-procedure.sql × 2 PROC_GRADE ×
Code | Grants | References | Profiles | Dependencies | Errors | Details
🛂 💋 👲 I 🐉 🗸 🕨 🦺 📗
    CREATE OR REPLACE PROCEDURE PROC_GRADE
       marks IN NUMBER
      , grade_category OUT VARCHAR2
      ) AS
      BEGIN
    ☐ IF (marks >= 990 AND marks <= 1500) THEN</p>
         grade_category := 'Distinction';
       ELSIF (marks >= 900 AND marks <= 989) THEN
         grade_category := 'First Class';
        ELSIF (marks >= 825 AND marks <= 899) THEN
          grade_category := 'Higher Second Class';
         grade_category := 'Fail';
       END IF;
      END PROC GRADE;
```

```
atharva-stored-function-and-procedure.sql × 2 PROC_GRADE
SQL Worksheet History
Worksheet Query Builder
     SET SERVEROUTPUT ON
    ■ DECLARE
        roll NUMBER;
         marks NUMBER;
         grade_category VARCHAR(20);
         cnt NUMBER;
         SELECT COUNT(*) INTO cnt FROM STUD_ATHARVA;
         WHILE cnt > 0 LOOP
             SELECT ROLL_NO, TOTAL_MARKS INTO roll, marks FROM STUD_ATHARVA WHERE ROLL_NO = cnt;
            PROC_GRADE (marks, grade_category);
             UPDATE RES SET CLASS = grade_category WHERE ROLL_NO = cnt;
             cnt := cnt - 1;
         END LOOP;
     EXCEPTION
         WHEN no_data_found THEN
         DBMS_OUTPUT.PUT_LINE('No Data Found');
         WHEN others THEN
         DBMS_OUTPUT.PUT_LINE('Error');
     END;
```



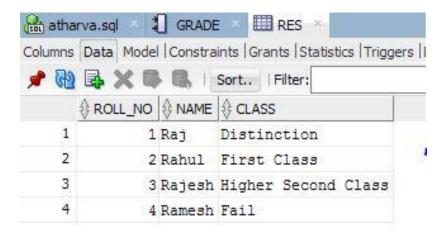
(5) Chit 7 -

STUDENT Table



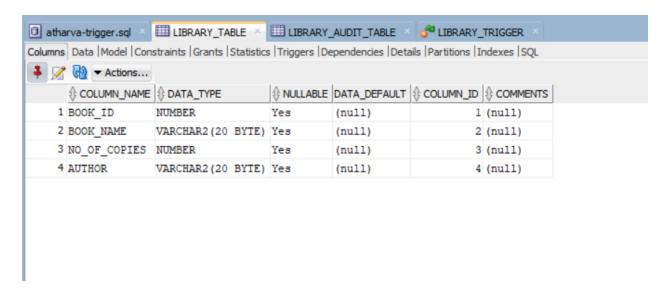
Stored Function

```
atharva-stored-function-and-procedure.sql × 🕻 GRADE
SQL Worksheet History
🕨 🕎 👸 🗸 🗟 | 🐉 🎎 | 🎎 🏈 👩 👭 |
Worksheet Query Builder
     SET SERVEROUTPUT ON
    ■ DECLARE
         roll NUMBER;
         marks NUMBER;
         grade_category VARCHAR(20);
         cnt NUMBER;
     BEGIN
         SELECT COUNT(*) INTO cnt FROM STUDENT;
        WHILE cnt > 0 LOOP
             SELECT ROLL_NO, MARKS INTO roll, marks FROM STUDENT WHERE ROLL_NO = cnt;
             grade_category := GRADE(marks);
           UPDATE RES SET GRADE = grade_category WHERE ROLL_NO = cnt;
             cnt := cnt - 1;
         END LOOP;
      EXCEPTION
         WHEN no_data_found THEN
         DBMS_OUTPUT.PUT_LINE('No Data Found');
         WHEN others THEN
         DBMS_OUTPUT.PUT_LINE('Error');
      END;
```

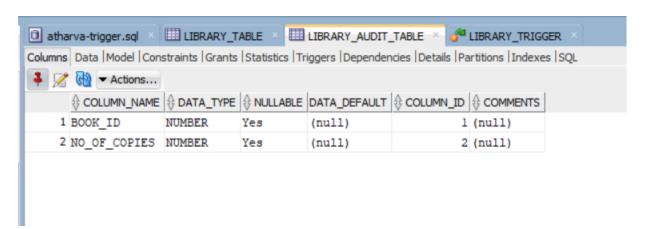


(6) Chit 11 -

LIBRARY_TABLE



LIBRARY_AUDIT_TABLE



LIBRARY_TRIGGER

PL/SQL CODE

```
atherva-trigger.sql × EIBRARY_TABLE × EIBRARY_AUDIT_TABLE × LIBRARY_TRIGGER ×

SQL Worksheet History

Worksheet Query Builder

SET SERVEROUTPUT ON

DECLARE

BEGIN

UPDATE LIBRARY_TABLE SET NO_OF_COPIES = 10 WHERE BOOK_ID = 1;

EXCEPTION

WHEN no_data_found THEN

DBMS_OUTPUT.PUT_LINE('No record present');

WHEN others THEN

DBMS_OUTPUT.PUT_LINE('Error');

END;
```

