DATABASE:

CREATING OF AUTHOR TABLE

```
CREATE TABLE Author (
Author_name VARCHAR(60),
A_DOB DATE,
PRIMARY KEY(Author_name)
);
INSERT INTO Author VALUES('Adams.Q.Douglas', '05-DEC-1967');
INSERT INTO Author VALUES ('Asimov.Z.Issac', '30-DEC-1975');
INSERT INTO Author VALUES('Card.S.Orson', '23-JUL-1942');
INSERT INTO Author VALUES('George.J.Orwell', '05-JUN-1930');
INSERT INTO Author VALUES('Ira.T.Betkowitz', '12-MAR-1954');
INSERT INTO Author VALUES('J.T.Tolkein', '12-MAR-1960');
SELECT * FROM Author;
CREATING OF EMPLOYEE TABLE:
CREATE TABLE Employee(
empid INT,
empname VARCHAR(30),
salary INT,
E_DOB DATE,
phone_num INT,
Job VARCHAR(30),
e_username varchar(30),
e_password varchar(30),
PRIMARY KEY (empid));
```

INSERT INTO Employee VALUES(2345, 'S.VINOD', 20000, '16-SEP-1991', 7445689170, 'Library Manager', '23451@iiitk.ac.in', 'Vinod@5');

INSERT INTO Employee VALUES(4567, 'B.NAVEEN REDDY', 8500, '26-JAN-1993', 9978145678, 'Record Manager', '45671@iiitk.ac.in', 'Naveen@7');

INSERT INTO Employee VALUES(1234, 'P.RAMESH KUMAR', 10000, '9-JAN-1995', 8789456751, 'Librarian', '12341@iiitk.ac.in', 'Ramesh@4');

INSERT INTO Employee VALUES(6789, 'V.VIMALA', 8000, '26-OCT-2000', 7458123644, 'Librarian', '67891@iiitk.ac.in', 'Vimala@9');

INSERT INTO Employee VALUES(3456, 'K.SREE VANI', 8000, '14-MAY-1996', 6301457968, 'Asst.Librarian', '34561@iiitk.ac.in', 'Sreevani@6');

INSERT INTO Employee VALUES(5678, 'P.SURESH', 7000, '16-MAR-2000', 8332897416, 'Attender', '56781@iiitk.ac.in', 'Suresh@8');

SELECT * FROM Employee;

CREATING STUDENT TABLE

CREATE TABLE Student (

Library card number VARCHAR(30),

S_Name VARCHAR(30),

S_DOB DATE,

Mail_id VARCHAR(30),

Phone_number INT,

PRIMARY KEY (Library_card_number)

);

INSERT INTO Student VALUES('119CS0025', 'T.SWETHA REDDY', '23-MAR-2001', '119cs0025@iiitk.ac.in', 9978451621);

INSERT INTO Student VALUES('119CS0013', 'K.SWATHI', '24-MAY-2002', '119cs0013@iiitk.ac.in', 7458123645);

INSERT INTO Student VALUES('119CS0019', 'C.JYOTHIKA', '07-APR-2002', '119cs0019@iiitk.ac.in', 9457861245);

INSERT INTO Student VALUES('119EC0005', 'V.SRUTHI', '23-OCT-2001','119ec0005@iiitk.ac.in', 7412589631);

INSERT INTO Student VALUES('119ME0007', 'C.PAVAN KUMAR', '18-FEB-2001', '119me0007@iiitk.ac.in', 6012345678);

INSERT INTO Student VALUES('118EC0001', 'V.SPANDANA', '01-DEC-2000', '118ec0001@iiitk.ac.in', 9784561234);

INSERT INTO Student VALUES('118CS0015', 'M.DEVI SIVA PRIYA', '29-MAY-2000', '118cs0015@iiitk.ac.in', 7845129631);

SELECT * FROM Student:

CREATING MEDIA TABLE

CREATE TABLE Media (

Barcode INT,

Title VARCHAR(60),

ISBN INT,

Edition_INT,

Published_Date DATE,

Publisher VARCHAR(60),

Type VARCHAR(30),

Subject VARCHAR(30),

Order_Cost INT,

Initial_condition VARCHAR(30),

PRIMARY KEY(Barcode)

);

INSERT INTO Media VALUES(51354873, 'Animal Farm-1984', 184046245, 0, '01-JAN-2003', 'Palgrave Macmillan', 'DVD', 'Palgrave Macmillan', 27, 'NEW');

INSERT INTO Media VALUES(53245532, 'Oracle PL/SQL Programming', 200993845, 5, '04-MAR-2010', 'O'Reilly', 'BOOK', 'DBMS', 25, 'NEW');

INSERT INTO Media VALUES(54879624, 'Algorithms', 812550706, 4, '01-JAN-1994', 'Pearson', 'BOOK', 'DAA', 8, 'NEW');

INSERT INTO Media VALUES(54897327, 'Computer Architecture and Organisation', 553293354, 3, '01-JAN-1991', 'McGraw-Hill', 'BOOK', 'COA', 8, 'NEW');

INSERT INTO Media VALUES(56478922, 'OOP IN C++', 932112448, 4, '01-JAN-2006', 'Harding', 'BOOK', 'OOP', 16, 'NEW');
INSERT INTO Media VALUES(59876249, 'FOUNDATION', 345391810, 1, '01-JAN-1995', 'Speectra', 'BOOK', 'HRS', 8, 'NEW');

select * from Media:

CREATING MEDIA AUTHOR TABLE

CREATE TABLE Media_Author(

Barcode INT,

Author_name VARCHAR(30),

A_DOB DATE,

PRIMARY KEY(Barcode),

FOREIGN KEY(Barcode) REFERENCES Media(Barcode),

FOREIGN KEY(Author_name) REFERENCES Author(Author_name)

);

INSERT INTO Media_Author VALUES(51354873, 'Adams.Q.Douglas', '05-DEC-1967');

INSERT INTO Media Author VALUES(53245532, 'J.T.Tolkein', '12-MAR-1960');

INSERT INTO Media_Author VALUES(54879624, 'Card.S.Orson', '23-JUL-1942');

INSERT INTO Media_Author VALUES(54897327, 'Asimov.Z.Issac', '30-DEC-1975');

INSERT INTO Media_Author VALUES(56478922, 'Ira.T.Betkowitz', '12-MAR-1954');

INSERT INTO Media_Author VALUES(59876249, 'Adams.Q.Douglas', '05-DEC-1967');

SELECT * FROM Media_Author;

CREATING CONDITION TABLE

CREATE TABLE Condition(

Grade VARCHAR(30),

Cost_percentage INT);

```
INSERT INTO Condition VALUES('GOOD', 80);
INSERT INTO Condition VALUES('AVERAGE', 70);
INSERT INTO Condition VALUES('NEW', 100);
INSERT INTO Condition VALUES('NEW-GOOD', 90);
INSERT INTO Condition VALUES('POOR', 60);
INSERT INTO Condition VALUES('REPLACE', 50);
SELECT * FROM Condition;
CREATING CHECKOUT TABLE
CREATE TABLE Check_out(
Library_card_number VARCHAR(30),
Barcode INT,
Checkoutdate DATE,
Renewed INT.
Amount Paid INT,
Fee INT.
Tobereturndate DATE,
Checkindate DATE,
Current_condition VARCHAR(30),
PRIMARY KEY (Library_card_number, Checkoutdate),
FOREIGN KEY (Library_card_number) REFERENCES Student(Library_card_number),
FOREIGN KEY (Barcode) REFERENCES Media(Barcode)
);
Insert into Check_out values('119CS0025', 51354873, '14-APR-2020', 0, 0, 0, '05-MAY-
2020','30-APR-2020','GOOD');
Insert into Check_out values('119CS0025', 51354873, '20-APR-2020', 0, 0, 0, '30-APR-2020',
'20-MAY-2020', 'NEW-GOOD');
```

Insert into Check_out values('119CS0025', 51354873, '04-MAY-2020', 0, 0, 0, '18-MAY-2020', '10-MAY-2020', 'GOOD');

Insert into Check_out values('119CS0025', 53245532, '29-NOV-2020', 0, 0, 0, '13-DEC-2020', '30-DEC-2020', 'NEW');

Insert into Check_out values('119CS0025', 54897327, '01-APR-2020', 0, 6, 0, '15-APR-2020', '06-MAY-2020', 'AVERAGE');

Insert into Check_out values('119CS0025', 56478922, '07-APR-2020', 0, 0, 0, 0, '21-APR-2020', '07-MAY-2020', 'NEW');

Insert into Check_out values('119CS0025', 59876249, '08-SEP-2020', 0, 0, 0, 0, '22-SEP-2020', '06- MAY-2020', 'NEW-GOOD');

Insert into Check_out values('119CS0013', 51354873, '30-APR-2020', 0, 0, 0, 0, '14-MAY-2020', '11-MAY-2020', 'NEW-GOOD');

Insert into Check_out values('119CS0019', 51354873, '21-APR-2020', 1, 0, 0, '12-MAY-2020', '23-APR-2020', 'NEW');

Insert into Check_out values('119EC0005', 54879624, '05-MAY-2020', 0, 0, 0, '19-MAY-2020', '27-MAY-2020', 'NEW');

select * from Check_out;

CREATING RESERVATION TABLE

CREATE TABLE Reservation(

Library_card_number VARCHAR(30),

Barcode INT,

Date_requested DATE,

Check_out_status VARCHAR(30),

Reshelf_date DATE,

PRIMARY KEY (Library_card_number,Barcode,Reshelf_date),

FOREIGN KEY (Library_card_number) REFERENCES Student(Library_card_number),

FOREIGN KEY (Barcode) REFERENCES Media(Barcode));

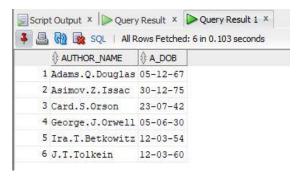
INSERT INTO Reservation VALUES('119CS0025', 54879624, '12-MAR-2020', 'YES', '16-MAR-2020');

INSERT INTO Reservation VALUES('119CS0025', 54879624, '08-JUN-2020', 'NO', '12-JUN-2020');

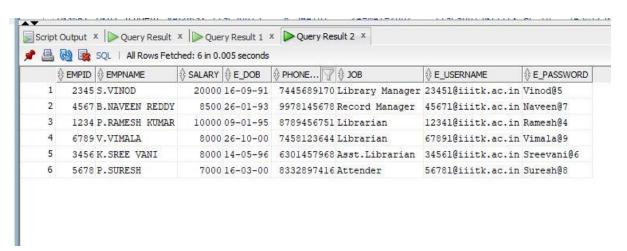
SELECT * FROM Reservation;

TABLES:

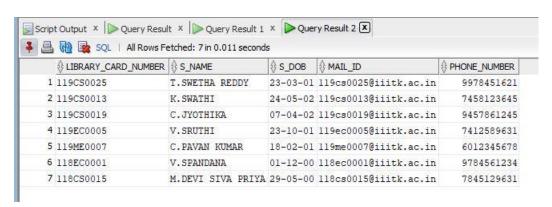
AUTHOR TABLE:



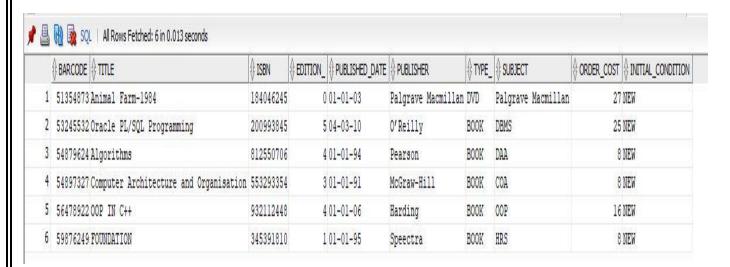
EMPLOYEE TABLE:



STUDENT TABLE:



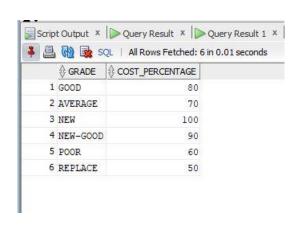
MEDIA TABLE:



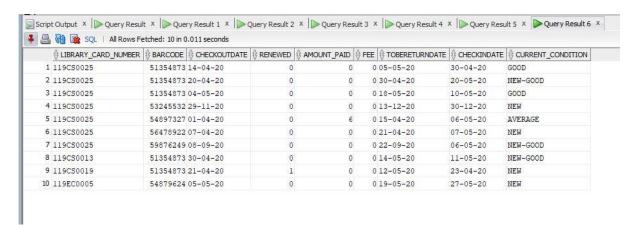
MEDIA_AUTHOR TABLE:



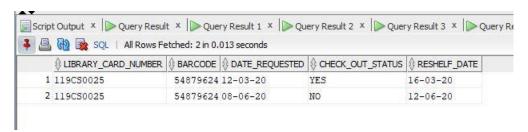
CONDITION TABLE:



CHECKOUT TABLE



RESERVATION TABLE

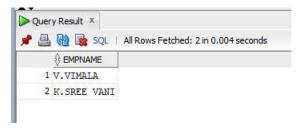


RANDOM QUERIES:

1.Dispaly the names of the employee's whose salary is 8000

select empname from Employee

where salary = 8000;



2.Display number of people checkedout the dvd animal farm-1984.

select count(distinct(Library_card_number)) from check_out

where Barcode = 51354873;

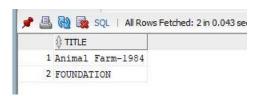


3.Display all the books written by 'Adams.Q.Douglas'

select Media. Title from Media, Media_Author

where Media_Author.Author_name = 'Adams.Q.Douglas'

and Media.Barcode = Media_Author.Barcode;



4.Display the names and ages of all the Authors.

select Author_name, floor((sysdate-A_DOB)/365) as age FROM Author;

