DBMS EXPERIMENTS

AMOGH GARG-2020UCO1688 EXPERIMENT-2 QUESTION-1

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CREATE TABLE CUSTOMERS(
      ID INT NOT NULL,
 CUST_NAME VARCHAR(45) NOT NULL,
 DESIGNATION VARCHAR(45) NOT NULL);
INSERT INTO CUSTOMERS VALUES(1, "abc", "A");
INSERT INTO CUSTOMERS VALUES(2, "pgr", "B");
INSERT INTO CUSTOMERS VALUES(3, "mno", "C");
CREATE TABLE ORDERS(
      ORID
                                         NOT NULL,
                           INT
AMOUNT
                                         NOT NULL,
                           INT
CUST_ID
                           INT
                                         NOT NULL
);
INSERT INTO ORDERS VALUES(601, 10000, 1);
INSERT INTO ORDERS VALUES(602, 2000, 4);
INSERT INTO ORDERS VALUES(603, 15000, 2);
1.SELECT * FROM CUSTOMERS INNER JOIN ORDERS ON CUSTOMERS.ID = ORDERS.CUST_ID
2.SELECT * FROM CUSTOMERS RIGHT JOIN ORDERS ON CUSTOMERS.ID = ORDERS.CUST_ID
3.SELECT * FROM CUSTOMERS LEFT JOIN ORDERS ON CUSTOMERS.ID = ORDERS.CUST_ID
4.SELECT * FROM CUSTOMERS LEFT JOIN ORDERS ON CUSTOMERS.ID = ORDERS.CUST_ID
UNION SELECT * FROM CUSTOMERS RIGHT JOIN ORDERS ON CUSTOMERS.ID = ORDERS.CUST_ID
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QUESTION-2

1. Primary key in the first table in Accession_Number which is the foreign key of the second table. **CREATE TABLE LIBRARYBOOKS(** ACCESSION_NUMBER INT NOT NULL, TITLE VARCHAR(45) NOT NULL, AUTHOR VARCHAR(45) NOT NULL, DEPARTMENT VARCHAR(45) NOT NULL, PURCHASEDATE DATE NOT NULL, PRICE INT NOT NULL, CONSTRAINT LIBRARYBOOKSPK PRIMARY KEY(ACCESSION_NUMBER)); INSERT INTO LIBRARYBOOKS VALUES(101, "DATABASE SYSTEM CONCEPTS", "NAVATHE", "CS", "2003-03-23", 480); INSERT INTO LIBRARYBOOKS VALUES(102, "DISCRETE MATHS MADE EASY", "RK MISHRA", "DISCRETE MATHS", "2000-01-24", 510); INSERT INTO LIBRARYBOOKS VALUES(103, "DESIGN AND ANALYSIS OF ALGORITHMS", "OP TANDON", "COMPETITIVE PROGRAMMING", "2001-05-18", 560); INSERT INTO LIBRARYBOOKS VALUES(104, "COMPUTER ARCHITECTURE", "CORMEN", "CS", "2002-12-12", 470); INSERT INTO LIBRARYBOOKS VALUES(105, "MICROPROCESSORS", "SIDWICK", "ELECTRONICS", "1999-07-08", 340); CREATE TABLE ISSUEDBOOKS(ACCESSION NUMBER INT NOT NULL, BORROWER VARCHAR(45) NOT NULL, CONSTRAINT ISSUEDBOOKSFK FOREIGN KEY(ACCESSION NUMBER) REFERENCES LIBRARYBOOKS(ACCESSION NUMBER)); INSERT INTO ISSUEDBOOKS VALUES(101, "ARYAN"); INSERT INTO ISSUEDBOOKS VALUES(104, "AKHIL");

INSERT INTO ISSUEDBOOKS VALUES(103, "AMAN");

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INSERT INTO ISSUEDBOOKS VALUES(105, "NIKHIL");
INSERT INTO ISSUEDBOOKS VALUES(102, "VISHAL");
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- 1. DELETE FROM LIBRARYBOOKS WHERE TITLE = "DATABASE SYSTEM CONCEPTS";
- 2.UPDATE LIBRARYBOOKS SET DEPARTMENT = "CS" WHERE DEPARTMENT = "DISCRETE MATHS";
- 3.SELECT * FROM LIBRARYBOOKS WHERE DEPARTMENT = "CS";
- 4.SELECT * FROM LIBRARYBOOKS WHERE DEPARTMENT = "CS" AND AUTHOR = "NAVATHE";
- 5.SELECT * FROM LIBRARYBOOKS L, ISSUEDBOOKS I WHERE L.DEPARTMENT = "CS" AND L.ACCESSION_NUMBER = I.ACCESSION_NUMBER
- 6.SELECT * FROM LIBRARYBOOKS L, ISSUEDBOOKS I WHERE L.PRICE <= 500 OR L.PURCHASEDATE <= "01-01-2003" AND L.PURCHASEDATE >= "01-01-1999"AND L.ACCESSION_NUMBER = I.ACCESSION_NUMBER;