ASSIGNMENT 5 RELATION ALGEBRA

Submitted by: AKSHAY JAIN

Registration Number: 17BCS002

Allocation of Exercise: 1,2,3

Solution 1:

• Query:

SELECT sID FROM took INNER JOIN offering ON took.Oid = offering.Oid WHERE Dept = "CS" AND cNum = 100

• View:

```
assignment5_1.sql
                   assignment5_2.sql 🖾 assignment5_3.sql 🖾
      SELECT sID
1
2
      FROM took
3
      INNER JOIN offering ON took.Oid = offering.Oid
4
      WHERE Dept = "CS" AND cNum = 100
   sID
1 1001
Result: 1 rows returned in 15ms
At line 1:
SELECT sID
FROM took
INNER JOIN offering ON took.Oid = offering.Oid
WHERE Dept = "CS" AND cNum = 100
```

Solution 2:

• Query:

CREATE TABLE Temp1 AS

SELECT sID

FROM took

INNER JOIN offering ON took.Oid = offering.Oid

WHERE Dept = "CS" AND cNum = 200 AND marks >= 90

• View:

```
assignment5_2.sql
assignment5_1.sql
                                      assignment5_3.sql
      CREATE TABLE Temp1 AS
2
          SELECT sID
3
          FROM took
4
          INNER JOIN offering ON took.Oid = offering.Oid
5
          WHERE Dept = "CS" AND cNum = 200 AND marks >= 90
Result: query executed successfully. Took Oms
At line 1:
CREATE TABLE Temp1 AS
           SELECT sID
            FROM took
            INNER JOIN offering ON took.Oid = offering.Oid
           WHERE Dept = "CS" AND cNum = 200 AND marks >= 90
```

Solution 3:

• Query:

SELECT surName, FirstName FROM student INNER JOIN Temp1 ON student.sID = Temp1.sID

• View:

