**600.415 Databases**

**Assignment 2**

**Sindhuula Selvaraju**

**(sselvar4)**

**Query 2:**

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_y | \_l | \_f | | | | | |

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ENROLLED\_IN | StuID | CID | Grade |

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| \_y | \_c | |

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COURSE | CID | CName |Credits| Instructor | Days | Hours | DNO |

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| \_c | | | \_x | | | \_d |

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FACULTY | FacID | Lname | Fname | Rank | Sex | Phone | Room | Building |

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| \_x | \_l | \_f | | | | | |

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DEPARMENT | DNO |Division| DName | Room | Building | DPhone |

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|\_d | |‘COMPUTER SCIENCE’| | |

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RESULT | Fname |Lname | | |

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| \_f |\_l | | |

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**Query 5:**

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_s | \_l | \_f | | | \_m | | |

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ENROLLED\_IN | StuID | CID | Grade |

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| \_s | \_c | |

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COURSE | CID | CName |Credits| Instructor | Days | Hours | DNO |

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| \_c | |\_cr | | | | |

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CONDITIONS

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SUM(\_cr) >=20

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RESULT | Fname | Lname | Major | |

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| \_f | \_l | \_m | |

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**Query 6:**

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_s | | | | | | \_f | |

| \_s3 | | | | | \_d | | |

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ENROLLED\_IN | StuID | CID | Grade |

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| \_s | \_c | |

| \_s2 | | |

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MINOR\_IN | StuID | DNO |

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| \_s3 | \_d |

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CONDITION

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\_s3.Major OR \_s3.Minor = \_d

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LIVES\_IN | StuID | DormID | Room\_number |Condition

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|\_s2 | \_dorm1 | |\_dorm1=\_dorm2

|\_s3 | \_dorm2 | |

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FACULTY | FacID | Lname | Fname | Rank | Sex | Phone | Room | Building |

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| \_f | \_l |\_fn | | | | | |

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MEMBER\_OF | FacID | DNO | Appt\_Type |

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| \_f | \_d | |

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RESULT | \_FacID |\_Lname | \_Fname | |

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| \_f |\_l | \_fn | | | |

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**Query 7:**

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LIKES | WhoLikes | WhoIsLiked |

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| \_wl |\_wil |

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_wl | \_l | \_f | | | \_m | | |

| \_wil | | | | | \_m | | |

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CONDITIONS

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COUNT(\_wil)=COUNT(\_m.stuid)

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RESULT | \_StuID |\_Lname | \_Fname | |

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| \_wl |\_l | \_f | | | |

**Query 12:**

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LOVES | WhoLoves | WhoIsLoved |

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| \_w1 | \_w2 |

| \_w2 | \_w1 |

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LIVES\_IN | StuID | DormID | Room\_number |

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| \_w1 | \_d | \_r |

| \_w2 | \_d | \_r |

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_wl | \_l1 | \_f1 | |\_s1 | | | |

| \_w2 | \_l2 | \_f2 | |\_s2 | | | |

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RESULT | Lname1 | \_Fname1 | \_Sex1 | \_Lname2 | \_Fname2 | \_Sex2

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| \_l1 |\_f1 | \_s1 | \_l2 | \_f2 |\_s2

**Query 13:**

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LOVES | WhoLoves | WhoIsLoved |

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| \_w1 | \_w2 |

| \_w2 | \_w3 |

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CONDITION

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\_w1 <> \_w3

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_wl | \_l1 | \_f1 | | | | |

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RESULT | Lname | \_Fname |

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| \_l1 |\_f1

**Query 14:**

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LOVES | WhoLoves | WhoIsLoved |

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| \_w1 | \_w2 |

| \_w1 | \_w3 |

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LIVES\_IN | StuID | DormID | Room\_number |

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| \_w1 | \_d | \_r |

| \_w2 | \_d | \_r |

| \_w3 | \_d | \_r |

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STUDENT | StuID | Lname | Fname | Age | Sex | Major | Advisor | City\_Code |

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| \_w2 | \_l1 | \_f1 | |\_s1 | | | |

| \_w3 | \_l2 | \_f2 | |\_s2 | | | |

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RESULT | Lname1 | \_Fname1 | \_Sex1 | \_Lname2 | \_Fname2 | \_Sex2

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| \_l1 |\_f1 | \_s1 | \_l2 | \_f2 |\_s2

**Query 16:**

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LOVES | WhoLoves | WhoIsLoved |

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| \_s1 | \_s2 |

| \_s2 | \_s1 |

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PREFERENCES| StuID | SleepHabits | MusicType | Smoking |

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| \_s1 | \_sh1 | | \_sm1 |

| \_s2 | \_sh2 | | \_sm2 |

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CONDITION

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\_sh1<>\_sh2 AND \_sm1<>\_sm2

**Query 19:**

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ENROLLED\_IN | StuID | CID | Grade |

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|COUNT(\_s)| \_c | |

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COURSE | CID | CName |Credits| Instructor | Days | Hours | DNO |

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| \_c | | | | | | \_d |

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DEPARMENT | DNO |Division| DName | Room | Building | DPhone |

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| \_d | \_div| | | | |

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RESULT | DIVISION | Enrollment | | |

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| \_div | SUM(COUNT(\_s) for each \_c in \_d for each \_d in \_div) | | |

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**Query 32:**

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HAS\_ALLERGY| StuID | AllergyName |

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| \_s | |

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PREFERENCES| StuID | SleepHabits | MusicType | Smoking |

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| \_s | | | ‘YES’ |

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SPORTSINFO | StuID | SportName |HoursPerWeek|GamesPlayed|OnScholarship|

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| <> \_s | | | | |

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ENROLLED\_IN | StuID | CID | Grade |

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| COUNT(\_s)| \_c |

| | | |

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COURSE | CID | CName |Credits| Instructor | Days | Hours | DNO |

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| \_c | | | | | | \_d |

| | | | | | | |

| | | | | | | |

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RESULT | DNO | COUNT | | |

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| \_d | SUM(COUNT(\_s) for each \_c in \_d)