CPS 510: Assignment 6

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Located at the top of each table section is a table that includes all of the table attributes.

PK - Primary key

U - Unique

Student Table:

| SIN | Student_number | U | First_ | Last_ | Phone_ | indig | Citizenship | Disability |
|------------|----------------|---|--------|-------|--------|-------|-------------|------------|
| (U) | (PK) | 0 | name | name | number | | | |
| | | G | | | | | | |

Includes a primary key of Student number and a unique identifier SIN#

Functional Dependencies of Student Table:

Student number -> SIN, SIN -> Student number

Student number -> UoG, firstname, last name, phone number, indig, citizenship, disability

Transaction Table:

| Student_number | TID(U) | TAmount | Tdesc | Tterm | Tdate |
|----------------|--------|---------|-------|-------|-------|
| (PK) | | | | | |

Includes a primary key relationship of student number to the Table student, with a unique transaction ID.

Functional Dependencies of Transaction Table:

Student number -> TID

TID -> TAmount, Tdesc, Tterm, tdate

Addresses Table:

Includes primary key of student number references student table.

Functional Dependencies of Addresses Table:

Student number -> address, city, prov, country, postal

Course Table:

| Course_number(PK) Course_name Credits |
|---------------------------------------|
|---------------------------------------|

Includes a primary key Course number

Functional Dependencies of Course Table:

Course_number -> Course_name, Credits

Section Table:

| Course_number | Instructor | Section_number | SYear | Sterm |
|---------------|------------|----------------|-------|-------|
| | | (PK) | | |

Includes a reference to course number, and also a primary key of section number

Functional Dependencies of Section Table:

Course_number -> Section_number, Section_number -> Course_number Section_number -> Instructor, Syear, Sterm

Department Table:

| Course_number (PK) Dhead | Dphone | Demail | Dname | Doffice |
|--------------------------|--------|--------|-------|---------|
|--------------------------|--------|--------|-------|---------|

Includes a primary key reference of course number.

Functional Dependencies of Department Table:

Course number -> Dname, Dname -> Course number

Course number -> Dhead, Dphone, Demail, Doffice

Registered Table:

| Student_number | Course_number | Section_number |
|----------------|---------------|----------------|
| _ | - | _ |

Includes a relationship between all of the main keys, section number, course number and student number.

Functional Dependencies of Registered Table:

Course number -> Student number, Student number -> Course number

Course number -> Section number, Section number -> Course number

Section number -> Student number, Student number -> Section number

Undergrad Table:

Includes a unique reference to the student number.

Functional Dependencies of Undergrad Table:

Student_number -> UoG, Udegree

Graduate Table:

| Student_numb | er UoG | GDegree | Gphone | Goffice |
|--------------|--------|---------|--------|---------|
|--------------|--------|---------|--------|---------|

Includes a unique key reference to the student number.

Functional Dependencies of Graduate Table:

Student number -> UoG, GDegree, GPhone, GOffice

SDegree Table:

| Student_number(PK) | UDegree | School |
|--------------------|---------|--------|
|--------------------|---------|--------|

Includes a primary key reference to student number

Functional Dependencies of SDegree Table:

Student number -> UDegree, School

Documents Table:

| Student_number(U) | Enrollment | Transcript | TransferCredits |
|-------------------|------------|------------|-----------------|
|-------------------|------------|------------|-----------------|

Includes a unique reference to the student number.

Functional Dependencies of Documents Table:

Student_number -> Enrollment, Transcript, TransferCredits