PHASE III: DATA IMPLEMENTATION

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--Justin Pulido

--Richard Vargas

--6/9/2019

--CSE 572

--Phase 3

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SET PAUSE OFF

spool TableCreation.txt

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--creating the tables for the database that will be used when inserting the data and

--creating the views.

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DROP TABLE AcademicDepartment CASCADE CONSTRAINTS;

CREATE TABLE AcademicDepartment (

departmentName VARCHAR2(10) NOT NULL,

departmentNo CHAR(4) NOT NULL,

phoneNo VARCHAR2(10),

faxNo VARCHAR2(10),

strAddress VARCHAR2(40),

city VARCHAR2(15),

postalCode INT,

staffNo CHAR(4) NOT NULL,

CONSTRAINTS AcademicDepartment\_PK PRIMARY KEY (departmentNo)

);

DROP TABLE Staff CASCADE CONSTRAINTS;

CREATE TABLE Staff (

staffNo CHAR(4) NOT NULL,

departmentNo CHAR(4),

ModuleCode CHAR(5) NOT NULL,

networkID CHAR(3) NOT NULL,

FName VARCHAR2(20) NOT NULL,

Minit CHAR(1),

LName VARCHAR2(20) NOT NULL,

phoneExt INT,

officeNo VARCHAR2(10),

Sex CHAR(1),

Salary NUMBER(8,2),

Post VARCHAR2(20),

Qualifications VARCHAR2(50) NOT NULL,

strAddress VARCHAR2(40),

city VARCHAR(15),

postalCode INT,

CONSTRAINTS Staff\_PK PRIMARY KEY (staffNo)

);

DROP TABLE Modules CASCADE CONSTRAINTS;

CREATE TABLE Modules (

ModuleCode CHAR(5) NOT NULL,

ModuleTitle VARCHAR2(30) NOT NULL,

staffNo CHAR(4) NOT NULL,

CourseCode CHAR(3) NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE NOT NULL,

textbooks VARCHAR2(30),

assessment CHAR(1),

prereqs VARCHAR2(70),

CONSTRAINTS Modules\_PK PRIMARY KEY (ModuleCode)

);

DROP TABLE Courses CASCADE CONSTRAINTS;

CREATE TABLE Courses (

CourseCode CHAR(3) NOT NULL,

CourseTitle VARCHAR2(30) NOT NULL,

staffNo CHAR(4) NOT NULL,

CONSTRAINTS Courses\_PK PRIMARY KEY (CourseCode)

);

DROP TABLE Students CASCADE CONSTRAINTS;

CREATE TABLE Students (

networkID CHAR(3)NOT NULL,

FName VARCHAR2(20) NOT NULL,

LName VARCHAR2(20) NOT NULL,

strAddress VARCHAR2(40),

city VARCHAR2(15),

postalCode INT,

DOB DATE NOT NULL,

Sex CHAR(1),

FinancialLoan NUMBER(10,2) NOT NULL,

Phone INT,

NOK VARCHAR2(30), --NOK == Next of Kin

CourseCode CHAR(3),

CONSTRAINTS Students\_PK PRIMARY KEY (networkID)

);

DROP TABLE StaffModule CASCADE CONSTRAINTS;

CREATE TABLE StaffModule (

staffNo CHAR(4) NOT NULL,

ModuleCode CHAR(5) NOT NULL,

Hours NUMBER(6,2),

CONSTRAINTS StaffModule\_PK PRIMARY KEY (staffNo, ModuleCode),

UNIQUE(ModuleCode)

);

DROP TABLE StudentModule CASCADE CONSTRAINTS;

CREATE TABLE StudentModule (

networkID CHAR(3),

ModuleCode CHAR(5) NOT NULL,

Grade CHAR(2),

matriculationNo INT NOT NULL,

CONSTRAINTS StudentModule\_PK PRIMARY KEY (matriculationNo)

);

spool off

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--Creating a new text file for altering the tables to add the the foreign keys that will be

--used for later on.

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spool AlterTables.txt

ALTER TABLE AcademicDepartment

ADD CONSTRAINTS AcademicDepartment\_staffNo\_FK FOREIGN KEY(staffNo)

REFERENCES Staff(staffNo)

ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;

ALTER TABLE Staff

ADD CONSTRAINTS Staff\_ModuleCode\_FK FOREIGN KEY(ModuleCode)

REFERENCES Modules(ModuleCode)

ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;

ALTER TABLE Modules

ADD CONSTRAINTS Modules\_CourseCode\_FK FOREIGN KEY(CourseCode)

REFERENCES Courses(CourseCode)

ON DELETE SET NULL DEFERRABLE;

ALTER TABLE Courses

ADD CONSTRAINTS Courses\_staffNo\_FK FOREIGN KEY(staffNo)

REFERENCES Staff(staffNo)

ON DELETE SET NULL DEFERRABLE;

ALTER TABLE Students

ADD CONSTRAINTS Students\_ModuleCode\_FK FOREIGN KEY(CourseCode)

REFERENCES Courses(CourseCode)

ON DELETE SET NULL DEFERRABLE;

ALTER TABLE StaffModule

ADD CONSTRAINTS StaffModule\_staffNo\_FK FOREIGN KEY(staffNo)

REFERENCES Staff(staffNo)

ON DELETE SET NULL DEFERRABLE;

ALTER TABLE StaffModule

ADD CONSTRAINTS StaffModule\_ModuleCode\_FK FOREIGN KEY(ModuleCode)

REFERENCES Modules(ModuleCode)

ON DELETE SET NULL DEFERRABLE;

ALTER TABLE StudentModule

ADD CONSTRAINTS StudentModule\_networkID\_FK FOREIGN KEY(networkID)

REFERENCES Students(networkID)

ON DELETE SET NULL DEFERRABLE ;

ALTER TABLE StudentModule

ADD CONSTRAINTS StudentModule\_ModuleCode\_FK FOREIGN KEY(ModuleCode)

REFERENCES Modules(ModuleCode)

ON DELETE SET NULL DEFERRABLE;

spool off

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--creating comments for the table

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spool CommentOnTables.txt

COMMENT ON TABLE AcademicDepartment

IS 'All departments in the university database';

COMMENT ON COLUMN AcademicDepartment.departmentName

IS 'Unique Department Name';

COMMENT ON COLUMN AcademicDepartment.departmentNo

IS 'Unique Department Number';

COMMENT ON COLUMN AcademicDepartment.phoneNo

IS 'Department Telephone Number';

COMMENT ON COLUMN AcademicDepartment.faxNo

IS 'Department Fax Number';

COMMENT ON COLUMN AcademicDepartment.strAddress

IS 'Department Street Address';

COMMENT ON COLUMN AcademicDepartment.city

IS 'Department city';

COMMENT ON COLUMN AcademicDepartment.postalCode

IS 'Department Postal Zip Code';

COMMENT ON TABLE Courses

IS 'All Courses at the University';

COMMENT ON COLUMN Courses.CourseCode

IS 'Unique Course Code';

COMMENT ON COLUMN Courses.CourseTitle

IS 'Course Title';

COMMENT ON COLUMN Courses.staffNo

IS 'Unique Staff Number for Staff in charge of Course';

COMMENT ON TABLE Staff

IS 'All staff at the university';

COMMENT ON COLUMN Staff.staffNo

IS 'Unique staff number';

COMMENT ON COLUMN Staff.staffNo

IS 'Unique staff number';

COMMENT ON COLUMN Staff.departmentNo

IS 'Unique department number that the employee belongs to';

COMMENT ON COLUMN Staff.ModuleCode

IS 'Module that the employee belongs to';

COMMENT ON COLUMN Staff.networkID

IS 'Unique network ID';

COMMENT ON COLUMN Staff.FName

IS 'First name of staff';

COMMENT ON COLUMN Staff.LName

IS 'Last name of staff';

COMMENT ON COLUMN Staff.Minit

IS 'Middle Initial';

COMMENT ON COLUMN Staff.phoneExt

IS 'Phone extension of that stuff number';

COMMENT ON COLUMN Staff.officeNo

IS 'Office number of the staff';

COMMENT ON COLUMN Staff.Sex

IS 'Sexual Gender of the staff';

COMMENT ON COLUMN Staff.Salary

IS 'How much the staff is making';

COMMENT ON COLUMN Staff.Post

IS 'Position of the employee';

COMMENT ON COLUMN Staff.Qualifications

IS 'Qualifications of the staff';

COMMENT ON COLUMN Staff.strAddress

IS 'Staff home Street Address';

COMMENT ON COLUMN Staff.city

IS 'Staff home city';

COMMENT ON COLUMN Staff.postalCode

IS 'Staff home Postal Zip Code';

COMMENT ON TABLE Modules

IS 'All modules at the university, aka classes';

COMMENT ON COLUMN Modules.ModuleCode

IS 'Unique Module Code';

COMMENT ON COLUMN Modules.ModuleTitle

IS 'Unique Module Title';

COMMENT ON COLUMN Modules.CourseCode

IS 'Course that the module belongs to';

COMMENT ON COLUMN Modules.StartDate

IS 'Date the the module starts';

COMMENT ON COLUMN Modules.EndDate

IS 'Date the the module ends';

COMMENT ON COLUMN Modules.textbooks

IS 'Books required for the course';

COMMENT ON COLUMN Modules.prereqs

IS 'prereq modules for the module';

COMMENT ON TABLE Students

IS 'All students at the university';

COMMENT ON COLUMN Students.networkID

IS 'unique network ID';

COMMENT ON COLUMN Students.FName

IS 'First name of student';

COMMENT ON COLUMN Students.LName

IS 'Last name of student';

COMMENT ON COLUMN Students.strAddress

IS 'Students home Street Address';

COMMENT ON COLUMN Students.city

IS 'Students home city';

COMMENT ON COLUMN Students.postalCode

IS 'Students home Postal Zip Code';

COMMENT ON COLUMN Students.DOB

IS 'Date of birth';

COMMENT ON COLUMN Students.Sex

IS 'Sexual Gender of Student';

COMMENT ON COLUMN Students.FinancialLoan

IS 'Amount the student owns';

COMMENT ON COLUMN Students.Phone

IS 'Phone Number of the student';

COMMENT ON COLUMN Students.NOK

IS 'Next of Kin of the student';

COMMENT ON COLUMN Students.CourseCode

IS 'Course code that the student belongs to';

COMMENT ON TABLE StaffModule

IS 'Staff teaching a module in the university';

COMMENT ON COLUMN StaffModule.staffNo

IS 'Staff number of staff teaching';

COMMENT ON COLUMN StaffModule.ModuleCode

IS 'Module that staff is teaching';

COMMENT ON COLUMN StaffModule.Hours

IS 'Amount of hours spent teaching that module';

COMMENT ON TABLE StudentModule

IS 'Students who belong to a certain module in the university';

COMMENT ON COLUMN StudentModule.networkID

IS 'Network ID that student belongs do';

COMMENT ON COLUMN StudentModule.ModuleCode

IS 'Module that the student belongs to';

COMMENT ON COLUMN StudentModule.Grade

IS 'Grade in the module';

spool off

Table dropped.

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--Justin Pulido

--Richard Vargas

--cse 572

--June 9th, 2019

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SET CONSTRAINTS ALL DEFERRED;

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--Inserting Academic Department Values

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INSERT INTO AcademicDepartment VALUES ('NotreDame','1902','9095550912','4089998888',

'8700 Oak St.Bluffton, SC 29910 E Block','Ontario','91470','0000');

INSERT INTO AcademicDepartment VALUES ('CIS','1903','9095550913','4089998889',

'8702 Oak St.Bluffton, SC 29911 D Block','Ontario','91471','0001');

INSERT INTO AcademicDepartment VALUES ('AI','1904','9095550914','4089998890',

'8704 Oak St.Bluffton, SC 29912 F Block','Ontario','91472','0002');

INSERT INTO AcademicDepartment VALUES ('Sigma','1905','9095550915','4089998891',

'8706 Oak St.Bluffton, SC 29913 G Block','Ontario','91473','0003');

INSERT INTO AcademicDepartment VALUES ('MultiMedia','1906','9095550912','4089998888',

'8700 Oak St.Bluffton, SC 29914 E Block','Ontario','91470','0004');

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--Inserting Staff Values

--43656, 39103, 43508,43422,43890

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INSERT INTO Staff VALUES ('0000','1902','43656','019','Jake',

'M','Logan','','E 29','F','100000','DEPT. MANAGER',

'PHD, MASTERS, BS','','','');

INSERT INTO Staff VALUES ('0001','1903','39103','020','Paulina',

'K','Blade','','G 28','F','90000','DEPT. MANAGER',

'PHD, MASTERS, BS','','','');

INSERT INTO Staff VALUES ('0002','1904','43502','021','Hector',

'O','Garcia','','G 50','M','65000','DEPT. MANAGER',

'PHD, MASTERS, BS','','','');

INSERT INTO Staff VALUES ('0003','1905','39111','022','Victoria',

'T','Quincy','','D 21','F','85700','DEPT. MANAGER',

'PHD, MASTERS, BS','','','');

INSERT INTO Staff VALUES ('0004','1906','43411','023','Maleria',

'Z','Tucker','','D 09','M','86000','PROFESSOR',

'MASTERS, BS, THEORETICAL DEGREE','','','');

INSERT INTO Staff VALUES ('0005','1902','43401','024','Richard',

'D','Dy','','G 29','M','10000','PROFESSOR',

'PHD, MASTERS, BS','','','');

INSERT INTO Staff VALUES ('0006','1903','43709','025','Eric',

'C','Garcia','','F 29','M','29000','RESEARCH',

'MASTERS, BS, QUANTUM MECHANICS BACKGROUND','','','');

INSERT INTO Staff VALUES ('0007','1904','43830','026','Ricardo',

'M','Nothing','','F 50','F','35000','DEAN',

'MASTERS IN PSYCHOLOGY','','','');

INSERT INTO Staff VALUES ('0008','1905','43102','027','Melany',

'','Creative','','E 99','F','50000','IT',

'MASTERS, BS, BIOLOGY CONCENTRATION','','','');

INSERT INTO Staff VALUES ('0009','1906', '43340','028','Cassandra',

'','Haku','','G 10','M','50000','JANITOR',

'MASTERS, PHILOSOPHY STUDYING PLATO','','','');

INSERT INTO Staff VALUES ('0010','1901','43876','029','Hitmon',

'G','Haku','','F 90','M','20000','PROFESSOR',

'MASTERS, PURSUING PHD NEURAL NETWORKS','','','');

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--Inserting Module Data

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INSERT INTO Modules VALUES ('43656','Graphic Design','0000','106','19-JAN-2019',

'15-APR-2019', 'Graphics 101','1','NONE');

INSERT INTO Modules VALUES ('39103','Theoritical IT','0001','103','28-NOV-2016',

'28-FEB-2017', 'Conceptual Modeling','1','BS DEGREE');

INSERT INTO Modules VALUES ('43502','Linear Algebra','0002','104','26-DEC-2017','31-JUL-208',

'Really Hard Book','1','HIGH LEVEL MATH');

INSERT INTO Modules VALUES ('39111','Operating Systems','0003','102','31-OCT-2015',

'28-JAN-2016', 'Intro To OS','1','CSE330');

INSERT INTO Modules VALUES ('43411','Creative Writing','0004','105','25-MAR-2010',

'25-OCT-2010', 'Platos writing before death','1','NONE');

INSERT INTO Modules VALUES ('43401','Intro to Media','0005','101','27-MAR-2010',

'30-OCT-2010', 'Media for Dummies','0','NONE');

INSERT INTO Modules VALUES ('43709','Intro to Adv CIS','0006','103','27-MAR-2010',

'30-OCT-2010', 'Computer Info Stuff Vol 2','1','NONE');

INSERT INTO Modules VALUES ('43830','Media Philosophy','0007','101','27-MAR-2011',

'30-OCT-2011', 'Damaging Society','1','NONE');

INSERT INTO Modules VALUES ('43102','Artificial Life','0008','102','20-MAR-2011',

'30-OCT-2011', 'Robots living in society','1','NONE');

INSERT INTO Modules VALUES ('43340','International Media','0009','101','15-MAR-2011',

'15-OCT-2011', 'Media of the world','1','NONE');

INSERT INTO Modules VALUES ('43876','Engineering','0010','103','10-MAR-2011',

'10-OCT-2011', 'Create life by robotics','1','NONE');

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--Inserting Courses

--43656 MultiMedia, 43422 CS, 39103 PhDIT, 43508 MATH, 43890 English

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INSERT INTO Courses VALUES ('106','Art 1','0000');

INSERT INTO Courses VALUES ('103','PhDIT','0001');

INSERT INTO Courses VALUES ('104','MATH','0002');

INSERT INTO Courses VALUES ('102','CS','0003');

INSERT INTO Courses VALUES ('105','ENGLISH','0004');

INSERT INTO Courses VALUES ('101','MultiMedia','0005');

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--Inserting Students

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INSERT INTO Students VALUES ('123','Manuel','Scott','Bel Air 10029 Monroe AVE', --1

'Corona','91536','11-JAN-1990','M','10000','9096542222','','106');

INSERT INTO Students VALUES ('124','Angelica','Monroe','Del Mar 10109 Columbine AVE',

'Ontario','91520','11-DEC-1993','F','50000','9097432222','','103');

INSERT INTO Students VALUES ('125','Heidi','Fransico','San Bernardino 15264 Del Mar AVE',

'Los Angeles','91650','21-JAN-1999','F','21000','9096562233','','104');

INSERT INTO Students VALUES ('126','Richard','Vargas','Long Beach 40039 Numbar AVE',

'Redlands','91670','01-NOV-1994','M','460000','9095405858','','102');

INSERT INTO Students VALUES ('127','Justin','Pulido','Montrovia 10523 Aroyo AVE',

'Ontario','91782','05-NOV-1995','M','50000','9095845555','','105');

INSERT INTO Students VALUES ('128','Desire','McGovern','Hollywood 15263 Dusbar AVE',

'Skyrim','92560','05-FEB-1995','F','40000','7876504593','','101');

INSERT INTO Students VALUES ('129','Hillk','MGovern','Bollywood 15263 Dusbar AVE',

'Skyword','92570','03-SEP-1991','F','80000','7776504593','','101');

INSERT INTO Students VALUES ('130','Hillary','Flynn','Dollywood 15263 Dusbar AVE',

'Sword','92580','05-FEB-1995','F','40000','7556504593','','101', '783435');

INSERT INTO Students VALUES ('131','Millary','Alynn','Menaphie 15263 Dusbar AVE',

'Dword','92590','05-MAY-1905','M','58000','7556504533','','101', '783651');

INSERT INTO Students VALUES ('132','Billary','Flynn','Xollywood 15263 Dusbar AVE',

'Wword','92600','05-AUG-1985','F','30000','7656504593','','101', '785482');--5

INSERT INTO Students VALUES ('133','Xillary','Xlynn','Zollywood 15263 Dusbar AVE',

'Kword','92610','05-FEB-1998','F','60000','7556504401','','103', '784823');--6

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--Inserting Staff Module

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INSERT INTO StaffModule VALUES ('0000','43656','1');

INSERT INTO StaffModule VALUES ('0001','39103','6');

INSERT INTO StaffModule VALUES ('0002','43502','40');

INSERT INTO StaffModule VALUES ('0003','39111','58');

INSERT INTO StaffModule VALUES ('0004','43411','46.00');

INSERT INTO StaffModule VALUES ('0005','43401','100.50');

INSERT INTO StaffModule VALUES ('0006','43709','98.50');

INSERT INTO StaffModule VALUES ('0007','43830','53.40');

INSERT INTO StaffModule VALUES ('0008','43102','89.40');

INSERT INTO StaffModule VALUES ('0009','43340','86.40');

INSERT INTO StaffModule VALUES ('0010','43876','89');

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--Inserting Student Module

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INSERT INTO StudentModule VALUES ('123','43656','A','001');

INSERT INTO StudentModule VALUES ('124','39103','A-','002');

INSERT INTO StudentModule VALUES ('125','43502','B+','003');

INSERT INTO StudentModule VALUES ('126','39111','C+','004');

INSERT INTO StudentModule VALUES ('127','43411','A+','005');

INSERT INTO StudentModule VALUES ('128','43401' ,'A+','006');

INSERT INTO StudentModule VALUES ('129','43709','B-','007');

INSERT INTO StudentModule VALUES ('129','43830','F','008');

INSERT INTO StudentModule VALUES ('129','43401','C','009');

INSERT INTO StudentModule VALUES ('130','43102','B-','010');

INSERT INTO StudentModule VALUES ('131','43340','C-', '011');

INSERT INTO StudentModule VALUES ('132','43876','D-', '012');

INSERT INTO StudentModule VALUES ('132','43709','D-', '013');

INSERT INTO StudentModule VALUES ('129','43830','A', '014');

INSERT INTO StudentModule VALUES ('129','43401','B+', '015');

INSERT INTO StudentModule VALUES ('131','43102','C', '016');

INSERT INTO StudentModule VALUES ('132','43401','F', '017');

INSERT INTO StudentModule VALUES ('132','43401','F', '018');

INSERT INTO StudentModule VALUES ('126','43401' ,'A+','019');

INSERT INTO StudentModule VALUES ('128','43401' ,'A','020');

INSERT INTO StudentModule VALUES ('129','43401' ,'A-','021');

INSERT INTO StudentModule VALUES ('130','43401' ,'B-','022');

INSERT INTO StudentModule VALUES ('132','43401' ,'B','023');

INSERT INTO StudentModule VALUES ('123','43401' ,'C+','024');

SET CONSTRAINTS ALL IMMEDIATE;

SELECT \*

FROM AcademicDepartment;

SELECT \*

FROM Staff;

SELECT \*

FROM Modules;

SELECT \*

FROM Courses;

SELECT \*

FROM Students;

SELECT \*

FROM StaffModule;

SELECT \*

FROM StudentModule;

--First VIEW

DROP VIEW EBlockView CASCADE CONSTRAINTS;

CREATE VIEW EBlockView AS

SELECT

departmentName

FROM

AcademicDepartment

WHERE

UPPER(strAddress)

LIKE

'%E BLOCK%';

SELECT

\*

FROM

EBlockView;

--Second VIEW

DROP VIEW PhDITView CASCADE CONSTRAINTS;

CREATE VIEW PhDITView AS

SELECT

m.ModuleTitle,

m.StartDate,

m.EndDate

FROM

Modules m,

Courses c

WHERE

c.CourseTitle

LIKE

'PhDIT'

AND

c.CourseCode

LIKE

m.CourseCode;

SELECT

\*

FROM

PhDITView;

--Third VIEW

DROP VIEW fManagerView CASCADE CONSTRAINTS;

CREATE VIEW fManagerView AS

SELECT

s.FName || s.LName Full\_Name,

s.strAddress || ',' || s.city || ','|| s.postalCode Full\_Address,

TO\_CHAR(s.salary,'$,999,999.00') AS Salary

FROM

Staff s,

AcademicDepartment a

WHERE

a.staffNo

LIKE

s.staffNo;

SELECT

\*

FROM

fManagerView;

--Fourth VIEW;

DROP VIEW PhDView CASCADE CONSTRAINTS;

CREATE VIEW PhDView AS

SELECT

FName || LName AS Full\_Name,

sex,

TO\_CHAR(salary,'$,999,999.00') AS Salary

FROM

staff

WHERE

UPPER(Qualifications)

LIKE

'%PHD%';

SELECT

\*

FROM

PhDView;

--Fifth VIEW

DROP VIEW CISStaffView CASCADE CONSTRAINTS;

CREATE VIEW CISStaffView AS

SELECT

s.LName,

s.post,

s.Qualifications

FROM

Staff s,

AcademicDepartment a

WHERE

s.departmentNo

LIKE

a.departmentNo;

SELECT

\*

FROM

CISStaffView;

--Sixth VIEW

DROP VIEW multiMediaView CASCADE CONSTRAINTS;

CREATE VIEW multiMediaView AS

SELECT

s.matriculationNo,

s.LName,

s.sex,

s.CourseCode

FROM

Students s,

CourseCode c,

WHERE

s.CourseCode

LIKE

c.CourseCode

AND

UPPER(c.CourseTitle)

LIKE

'MULTIMEDIA';

Select

\*

FROM

multiMediaView;

--Seventh VIEW

DROP VIEW OverpaidView CASCADE CONSTRAINTS;

CREATE VIEW OverpaidView AS

SELECT

staffNo,

LName,

sex,

post

FROM

Staff

WHERE

salary > AVG((

SELECT

SALARY

FROM

Staff

));

SELECT

\*

FROM

OverpaidView;

--Eighth VIEW

--DROP VIEW OverTenView CASCADE CONSTRAINTS;

--CREATE VIEW OverTenView AS

--SELECT

IV. Comments on Project – Implementation phase

1. Justin Pulido
2. Difficulties I faced was changing the values of the datatypes during the implantation to help better the data insertion. As well as having PK’s and FK’s violated.
3. Likes about this project is it helped me grasp understanding creating a database better. Dislikes, was having many errors regarding a violation of a key and not understanding how to fix this error.
4. Changing up some of the data to match what was needed.
5. Be able to have students have something to present before the week it is due to help find errors within the implementation of the database.
6. Richard Vargas
   1. Difficulties that I faced were writing views while the data insertion was not yet done. This was due to the fact that my partner and I were dividing the work, and the data insertion was giving my partner and myself a lot of problems. Upon fixing many errors, others would appear. We were having a lot of errors regarding foreign keys and I believe that was hurting our progress greatly.
   2. I liked the fact that we were developing a real-world database, however it was difficult in the fact that we were left to solve the problems encountered ourselves. Another difficulty was the time constraints put on the project, along with many other database classes. I disliked the fact that we were getting errors that seem very general and can mean a lot of things upon looking them up. Another portion I disliked was not being able to use SQL developer, and having to run everything from PuTTy.
   3. The most challenging portion of the project was the data insertion. Data insertion gave us errors multiple times, and upon solving some of the errors, others were created. My partner and I worked very hard for hours to solve these issues however they kept appearing. We did end up getting the data in correctly, however I feel we did not implement the foreign keys correctly.
   4. I believe this portion of the project could be improved by splitting up the building of the database into two parts, therefore having a total of for portions of the project to turn in. Otherwise I believe that having a few more labs on building databases could be very useful to the project as well.

V. Personal Comments on Projects

A. Justin Pulido

1. I contributed to creating the tables and inserting the data along with help from my partner.
2. My partner contributed to helping me understand the datatypes and fixing errors regarding the violation of pk or fk.

B. Richard Vargas

1. I helped with the data dictionary, helped my partner create the tables, and helped to debug data insertion and I also created the views. The debugging took the longest, however in the struggle of debugging I feel like I learned a lot on the topic of databases and truly helped me to understand.
2. My partner did a very good job in understanding and working hard on the project, and I believe the amount of work put in was equal among us.