

## **PART III: Oracle Implementation**

# Project Tables

## 1. Data Dictionary:

TABLE_NAME -----	COMMENTS -----
COURSE	All information about the universities academic courses.
DEPARTMENT	All information about each university department.
MODULE	All information about each module the university offers.
NEXTKIN	Information about each next-of-kin/emergency contact.
PERFORMANCE	Information about the grades each student earns in each module.
STAFF	Contains personal info about all staff in the database.
STAFFWORKINFO	Contains work-related info about all staff.
STUDENT	Information about all students in the database.
TEACHING	Displays information about the module and hours a staff member worked.

9 rows selected.

TABLE_NAME -----	COLUMN_NAME -----	COMMENTS -----
STAFF	STAFF_NUMBER	Unique staff number for each staff member
STAFF	NETWORKUID	Unique computer network ID for all staff and students.
STAFF	FNAME	The first name of the staff member.
STAFF	LNAME	The last name of the staff member.
STAFF	ADDRESS	Where the staff member lives.
STAFF	STAFF_PHONE	Phone number of the staff member.
STAFF	SEX	The gender of the staff member.

7 rows selected.

TABLE_NAME	COLUMN_NAME	COMMENTS
STAFFWORKINFO	STAFF_NUMBER	Unique staff number for each staff member.
STAFFWORKINFO	DEPTID	The department that this staff member works for.
STAFFWORKINFO	OFFICE_NO	The office number where the staff member works.
STAFFWORKINFO	SALARY	How much money the staff member earns per month.
STAFFWORKINFO	POSITION	What type of job the staff member performs (i.e. professor).
STAFFWORKINFO	QUALIFICATIONS	The type(s) of qualifications for each staff member.

6 rows selected.

TABLE_NAME	COLUMN_NAME	COMMENTS
COURSE	COURSE_CODE	Unique number to identify each course.
COURSE	DEPTID	The department in charge of managing this course.
COURSE	COURSE_TITLE	The name of each course.
COURSE	STAFF_NUMBER	The staff number of the course manager.
COURSE	DURATION	How long the course will run (in months)

TABLE_NAME	COLUMN_NAME	COMMENTS
DEPARTMENT	DEPTID	Unique number to identify each department.
DEPARTMENT	DEPT_NAME	The name of each department.
DEPARTMENT	STAFF_NUMBER	The staffID of the department manager.
DEPARTMENT	MGRSTARTDATE	The date the manager started working.
DEPARTMENT	DEPT_PHONE	Phone number of each department.
DEPARTMENT	FAX	Fax number of each department.
DEPARTMENT	LOCATION	Where each department is physically located.

7 rows selected.

TABLE_NAME	COLUMN_NAME	COMMENTS
-----	-----	-----
MODULE	MODULE_CODE	Unique number to identify each module.
MODULE	COURSE_CODE	The course to which this module belongs.
MODULE	STAFF_NUMBER	The staff number of the module coordinator.
MODULE	MODULE_TITLE	The name of each module.
MODULE	MOD_START	The start date of each module.
MODULE	MOD_END	The end date of each module.
MODULE	TEXTBOOKS	Any required textbooks for the module.

7 rows selected.

TABLE_NAME	COLUMN_NAME	COMMENTS
-----	-----	-----
STUDENT	MATRICNO	Unique number to identify each student.
STUDENT	COURSE_CODE	The course the student is currently enrolled.
STUDENT	FNAME	First name of the student.
STUDENT	LNAME	Last name of the student.
STUDENT	SEX	Gender of the student.
STUDENT	STREET	The street address of each student.
STUDENT	TOWN	The town or city in which the student lives.
STUDENT	POSTAL_CODE	Postal/zip code of the student.
STUDENT	FINANCIAL_LOAN	Information about the financial aid loan of the student.

9 rows selected.

TABLE_NAME	COLUMN_NAME	COMMENTS
-----	-----	-----
NEXTKIN	MATRICNO	The matriculation number of the student associated with this contact.
NEXTKIN	NOKNAME	Name of the next-of-kin for each student
NEXTKIN	NOKADDRESS	Address of next-of-kin for each student.
NEXTKIN	NOKPHONE	Phone number of next-of-kin for each student.
NEXTKIN	RELATIONSHIP	Relationship each next-of-kin has to the student.

TABLE_NAME	COLUMN_NAME	COMMENTS
PERFORMANCE	MATRICNO	Lists the matriculation number associated with the student.
PERFORMANCE	MODULE_CODE	Lists the module the student is undertaking.
PERFORMANCE	GRADE	Lists the grade the student earned in the specified module.

TABLE_NAME	COLUMN_NAME	COMMENTS
TEACHING	STAFF_NUMBER	The associated staff number of the teaching staff member.
TEACHING TEACHING	MODULE_CODE HOURS	The module the staff member is teaching. The number of hours per week the staff member worked/taught.

## 2. SQL Data Definition:

-- Project Option: University Database  
-- Purpose: SQL Data Definition - create the tables of the university database  
-- Author: Nathan Cottrell, SID: 006765987

DROP TABLE Staff CASCADE CONSTRAINTS;

```
CREATE TABLE Staff (  
    staff_number CHAR(5) NOT NULL,  
    networkUID CHAR(5) NOT NULL,  
    fName VARCHAR(15) NOT NULL,  
    lName VARCHAR(15) NOT NULL,  
    address VARCHAR(40) NOT NULL,  
    staff_phone NUMBER(10) NOT NULL,  
    sex CHAR(1) NOT NULL,  
    CONSTRAINTS Staff_staff_number_PK PRIMARY KEY (staff_number)  
);
```

DROP TABLE StaffWorkInfo CASCADE CONSTRAINTS;

```
CREATE TABLE StaffWorkInfo (  
    staff_number CHAR(5) NOT NULL,  
    deptID CHAR(5) NOT NULL,  
    office_no CHAR(5) NOT NULL,  
    salary NUMBER(5) NOT NULL,  
    position VARCHAR(25) NOT NULL,  
    qualifications VARCHAR(30) NOT NULL,  
    CONSTRAINTS StaffWorkInfo_staff_number_PK PRIMARY KEY (staff_number)  
);
```

DROP TABLE Course CASCADE CONSTRAINTS;

```
CREATE TABLE Course (  
    course_code CHAR(5) NOT NULL,  
    deptID CHAR(5) NOT NULL,  
    course_title VARCHAR(25) NOT NULL,  
    staff_number CHAR(5) NOT NULL,  
    duration NUMBER(2) NOT NULL,  
    CONSTRAINTS Course_course_code_PK PRIMARY KEY (course_code)  
);
```

DROP TABLE Department CASCADE CONSTRAINTS;

```
CREATE TABLE Department (  
    deptID CHAR(5) NOT NULL,  
    dept_name VARCHAR(20) NOT NULL,  
    staff_number CHAR(5) NOT NULL,  
    mgrStartDate DATE NOT NULL,  
    dept_phone NUMBER(10) NOT NULL,
```

```

        fax NUMBER(10) NOT NULL,
        location VARCHAR(20) NOT NULL,
        CONSTRAINTS Department_deptID_PK PRIMARY KEY (deptID)
    );

DROP TABLE Module CASCADE CONSTRAINTS;
CREATE TABLE Module (
    module_code CHAR(5) NOT NULL,
    course_code CHAR(5),
    staff_number CHAR(5),
    module_title VARCHAR(20) NOT NULL,
    mod_start DATE,
    mod_end DATE,
    textbooks VARCHAR(35),
    CONSTRAINTS Module_module_code_PK PRIMARY KEY (module_code)
);

DROP TABLE Student CASCADE CONSTRAINTS;
CREATE TABLE Student (
    matricNo CHAR(5) NOT NULL,
    course_code CHAR(5),
    fName VARCHAR(15) NOT NULL,
    lName VARCHAR(15) NOT NULL,
    sex CHAR(1) NOT NULL,
    street VARCHAR(20) NOT NULL,
    town VARCHAR(10) NOT NULL,
    postal_code NUMBER(5) NOT NULL,
    financial_loan VARCHAR(40) NOT NULL,
    CONSTRAINTS Student_matricNo_PK PRIMARY KEY (matricNo)
);

DROP TABLE NextKin CASCADE CONSTRAINTS;
CREATE TABLE NextKin (
    matricNo CHAR(5) NOT NULL,
    NOKname VARCHAR(20) NOT NULL,
    NOKaddress VARCHAR(30) NOT NULL,
    NOKphone NUMBER(10) NOT NULL,
    relationship VARCHAR(20) NOT NULL,
    CONSTRAINTS NextKind_matricNo_PK PRIMARY KEY (matricNo)
);

DROP TABLE Performance CASCADE CONSTRAINTS;
CREATE TABLE Performance (
    matricNo CHAR(5) NOT NULL,
    module_code CHAR(5) NOT NULL,
    grade CHAR(1) NOT NULL,

```

```
        CONSTRAINTS Performance_matricNo_PK PRIMARY KEY
(matricNo,module_code)
);
```

```
DROP TABLE Teaching CASCADE CONSTRAINTS;
CREATE TABLE Teaching (
    staff_number CHAR(5) NOT NULL,
    module_code CHAR(5) NOT NULL,
    hours NUMBER(2) NOT NULL,
    CONSTRAINTS Teaching_staff_number_PK PRIMARY KEY
(staff_number,module_code)
);
```



-- Project Option: University Database  
-- Purpose: SQL Data Definition - alter the tables of the university database  
-- by adding constraints  
-- Author: Nathan Cottrell, SID: 006765987

```
ALTER TABLE StaffWorkInfo
    ADD CONSTRAINTS StaffWorkInfo_staff_number_FK FOREIGN KEY (staff_number)
    REFERENCES Staff(staff_number)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE StaffWorkInfo
    ADD CONSTRAINTS StaffWorkInfo_deptID_FK FOREIGN KEY (deptID)
    REFERENCES Department(deptID)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Course
    ADD CONSTRAINTS Course_staff_number_FK FOREIGN KEY (staff_number)
    REFERENCES StaffWorkInfo(staff_number)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Course
    ADD CONSTRAINTS Course_deptID_FK FOREIGN KEY (deptID)
    REFERENCES Department(deptID)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Department
    ADD CONSTRAINTS Department_staff_number_FK FOREIGN KEY (staff_number)
    REFERENCES Staff(staff_number)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Module
    ADD CONSTRAINTS Module_staff_number_FK FOREIGN KEY (staff_number)
    REFERENCES StaffWorkInfo(staff_number)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Student
    ADD CONSTRAINTS Student_course_code_FK FOREIGN KEY (course_code)
    REFERENCES Course(course_code)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE NextKin
    ADD CONSTRAINTS NextKin_matricNo_FK FOREIGN KEY (matricNo)
    REFERENCES Student(matricNo)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Performance
    ADD CONSTRAINTS Performance_matricNo_FK FOREIGN KEY (matricNo)
    REFERENCES Student(matricNo)
    ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Performance
  ADD CONSTRAINTS Performance_module_code_FK FOREIGN KEY (module_code)
  REFERENCES Module(module_code)
  ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Teaching
  ADD CONSTRAINTS Teaching_staff_number_FK FOREIGN KEY (staff_number)
  REFERENCES StaffWorkInfo(staff_number)
  ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

```
ALTER TABLE Teaching
  ADD CONSTRAINTS Teaching_module_code_FK FOREIGN KEY (module_code)
  REFERENCES Module(module_code)
  ON DELETE SET NULL DEFERRABLE INITIALLY IMMEDIATE;
```

-- Project Option: University Database

-- Purpose: Data dictionary - create comments on the tables and columns

-- Author: Nathan Cottrell, SID: 006765987

-- Staff Table

COMMENT ON TABLE Staff IS 'Contains personal info about all staff in the database.';

COMMENT ON COLUMN Staff.staff\_number IS 'Unique staff number for each staff member.';

COMMENT ON COLUMN Staff.networkUID IS 'Unique computer network ID for all staff and students.';

COMMENT ON COLUMN Staff.fName IS 'The first name of the staff member.';

COMMENT ON COLUMN Staff.lName IS 'The last name of the staff member.';

COMMENT ON COLUMN Staff.address IS 'Where the staff member lives.';

COMMENT ON COLUMN Staff.staff\_phone IS 'Phone number of the staff member.';

COMMENT ON COLUMN Staff.sex IS 'The gender of the staff member.';

--StaffWorkInfo Table

COMMENT ON TABLE StaffWorkInfo IS 'Contains work-related info about all staff.';

COMMENT ON COLUMN StaffWorkInfo.staff\_number IS 'Unique staff number for each staff member.';

COMMENT ON COLUMN StaffWorkInfo.deptID IS 'The department that this staff member works for.';

COMMENT ON COLUMN StaffWorkInfo.office\_no IS 'The office number where the staff member works.';

COMMENT ON COLUMN StaffWorkInfo.salary IS 'How much money the staff member earns per month.';

COMMENT ON COLUMN StaffWorkInfo.position IS 'What type of job the staff member performs (i.e. professor).';

COMMENT ON COLUMN StaffWorkInfo.qualifications IS 'The type(s) of qualifications for each staff member.';

-- Course Table

COMMENT ON TABLE Course IS 'All information about the universities academic courses.';

COMMENT ON COLUMN Course.course\_code IS 'Unique number to identify each course.';

COMMENT ON COLUMN Course.deptID IS 'The department in charge of managing this course.';

COMMENT ON COLUMN Course.course\_title IS 'The name of each course.';

COMMENT ON COLUMN Course.staff\_number IS 'The staff number of the course manager.';

COMMENT ON COLUMN Course.duration IS 'How long the course will run (in months).';

-- Department Table

```

COMMENT ON TABLE Department IS 'All information about each university
department.';
COMMENT ON COLUMN Department.deptID IS 'Unique number to identify each
department.';
COMMENT ON COLUMN Department.dept_name IS 'The name of each department.';
COMMENT ON COLUMN Department.staff_number IS 'The staffID of the department
manager.';
COMMENT ON COLUMN Department.mgrStartDate IS 'The date the manager started
working.';
COMMENT ON COLUMN Department.dept_phone IS 'Phone number of each
department.';
COMMENT ON COLUMN Department.fax IS 'Fax number of each department.';
COMMENT ON COLUMN Department.location IS 'Where each department is physically
located.';

```

-- Module Table

```

COMMENT ON TABLE Module IS 'All information about each module the university
offers.';
COMMENT ON COLUMN Module.module_code IS 'Unique number to identify each
module.';
COMMENT ON COLUMN Module.course_code IS 'The course to which this module
belongs.';
COMMENT ON COLUMN Module.staff_number IS 'The staff number of the module
coordinator.';
COMMENT ON COLUMN Module.module_title IS 'The name of each module.';
COMMENT ON COLUMN Module.mod_start IS 'The start date of each module.';
COMMENT ON COLUMN Module.mod_end IS 'The end date of each module.';
COMMENT ON COLUMN Module.textbooks IS 'Any required textbooks for the
module.';

```

-- Student Table

```

COMMENT ON TABLE Student IS 'Information about all students in the database.';
COMMENT ON COLUMN Student.matricNo IS 'Unique number to identify each
student.';
COMMENT ON COLUMN Student.course_code IS 'The course the student is currently
enrolled.';
COMMENT ON COLUMN Student.fName IS 'First name of the student.';
COMMENT ON COLUMN Student.lName IS 'Last name of the student.';
COMMENT ON COLUMN Student.sex IS 'Gender of the student.';
COMMENT ON COLUMN Student.street IS 'The street address of each student.';
COMMENT ON COLUMN Student.town IS 'The town or city in which the student lives.';
COMMENT ON COLUMN Student.postal_code IS 'Postal/zip code of the student.';
COMMENT ON COLUMN Student.financial_loan IS 'Information about the financial aid
loan of the student.';

```

-- NextKin Table

COMMENT ON TABLE NextKin IS 'Information about each next-of-kin/emergency contact.';  
COMMENT ON COLUMN NextKin.matricNo IS 'The matriculation number of the student associated with this contact.';  
COMMENT ON COLUMN NextKin.NOKname IS 'Name of the next-of-kin for each student.';  
COMMENT ON COLUMN NextKin.NOKaddress IS 'Address of next-of-kin for each student.';  
COMMENT ON COLUMN NextKin.NOKphone IS 'Phone number of next-of-kin for each student.';  
COMMENT ON COLUMN NextKin.relationship IS 'Relationship each next-of-kin has to the student.';

-- Performance Table

COMMENT ON TABLE Performance IS 'Information about the grades each student earns in each module.';  
COMMENT ON COLUMN Performance.matricNo IS 'Lists the matriculation number associated with the student.';  
COMMENT ON COLUMN Performance.module\_code IS 'Lists the module the student is undertaking.';  
COMMENT ON COLUMN Performance.grade IS 'Lists the grade the student earned in the specified module.';

-- Teaching Table

COMMENT ON TABLE Teaching IS 'Displays information about the module and hours a staff member worked.';  
COMMENT ON COLUMN Teaching.staff\_number IS 'The associated staff number of the teaching staff member.';  
COMMENT ON COLUMN Teaching.module\_code IS 'The module the staff member is teaching.';  
COMMENT ON COLUMN Teaching.hours IS 'The number of hours per week the staff member worked/taught.';

### 3. Table Structure:

#### DESC Staff

Name	Null?	Type
-----	-----	-----
STAFF_NUMBER	NOT NULL	CHAR(5)
NETWORKUID	NOT NULL	CHAR(5)
FNAME	NOT NULL	VARCHAR2(15)
LNAME	NOT NULL	VARCHAR2(15)
ADDRESS	NOT NULL	VARCHAR2(40)
STAFF_PHONE	NOT NULL	NUMBER(10)
SEX	NOT NULL	CHAR(1)

#### DESC StaffWorkInfo

Name	Null?	Type
-----	-----	-----
STAFF_NUMBER	NOT NULL	CHAR(5)
DEPTID	NOT NULL	CHAR(5)
OFFICE_NO	NOT NULL	CHAR(5)
SALARY	NOT NULL	NUMBER(5)
POSITION	NOT NULL	VARCHAR2(25)
QUALIFICATIONS	NOT NULL	VARCHAR2(30)

#### DESC Course

Name	Null?	Type
-----	-----	-----
COURSE_CODE	NOT NULL	CHAR(5)
DEPTID	NOT NULL	CHAR(5)
COURSE_TITLE	NOT NULL	VARCHAR2(25)
STAFF_NUMBER	NOT NULL	CHAR(5)
DURATION	NOT NULL	NUMBER(2)

#### DESC Department

Name	Null?	Type
-----	-----	-----
DEPTID	NOT NULL	CHAR(5)
DEPT_NAME	NOT NULL	VARCHAR2(20)
STAFF_NUMBER	NOT NULL	CHAR(5)
MGRSTARTDATE	NOT NULL	DATE
DEPT_PHONE	NOT NULL	NUMBER(10)
FAX	NOT NULL	NUMBER(10)
LOCATION	NOT NULL	VARCHAR2(20)

DESC Module Name	Null?	Type
-----	-----	-----
MODULE_CODE	NOT NULL	CHAR(5)
COURSE_CODE		CHAR(5)
STAFF_NUMBER		CHAR(5)
MODULE_TITLE	NOT NULL	VARCHAR2(20)
MOD_START		DATE
MOD_END		DATE
TEXTBOOKS		VARCHAR2(35)

DESC Student Name	Null?	Type
-----	-----	-----
MATRICNO	NOT NULL	CHAR(5)
COURSE_CODE		CHAR(5)
FNAME	NOT NULL	VARCHAR2(15)
LNAME	NOT NULL	VARCHAR2(15)
SEX	NOT NULL	CHAR(1)
STREET	NOT NULL	VARCHAR2(20)
TOWN	NOT NULL	VARCHAR2(10)
POSTAL_CODE	NOT NULL	NUMBER(5)
FINANCIAL_LOAN	NOT NULL	VARCHAR2(40)

DESC NextKin Name	Null?	Type
-----	-----	-----
MATRICNO	NOT NULL	CHAR(5)
NOKNAME	NOT NULL	VARCHAR2(20)
NOKADDRESS	NOT NULL	VARCHAR2(30)
NOKPHONE	NOT NULL	NUMBER(10)
RELATIONSHIP	NOT NULL	VARCHAR2(20)

DESC Performance Name	Null?	Type
-----	-----	-----
MATRICNO	NOT NULL	CHAR(5)
MODULE_CODE	NOT NULL	CHAR(5)
GRADE	NOT NULL	CHAR(1)

DESC Teaching Name	Null?	Type
-----	-----	-----
STAFF_NUMBER	NOT NULL	CHAR(5)
MODULE_CODE	NOT NULL	CHAR(5)
HOURS	NOT NULL	NUMBER(2)

#### 4. Table Contents:

-- Project Option: University Database  
-- Purpose: Table Contents - insert data in all the tables  
-- Author: Nathan Cottrell, SID: 006765987

SET CONSTRAINTS ALL DEFERRED;

```
INSERT INTO Staff VALUES ('S0000','NU000','Chuck','Norris','53 Main St, Fontana,
95671','9095557263','M');
INSERT INTO Staff VALUES ('S1001','NU100','Elaine','Willis','139 Vivaldi Ave, Fontana,
93762','9095553878','F');
INSERT INTO Staff VALUES ('S1003','NU101','Jordan','Ogadikwe','365 Franklin Blvd,
Upland, 91650','9095551248','M');
INSERT INTO Staff VALUES ('S1005','NU103','Katherine','Dierst','325 Michael Rd, San
Bernardino, 95176','9095555876','F');
INSERT INTO Staff VALUES ('S1007','NU105','Roger','Yang','29 Filrow Way, Upland,
93125','9095556971','M');
INSERT INTO Staff VALUES ('S1009','NU107','Chrissie','Bjord','119 Trevor Place,
Fontana, 97653','9095558892','F');
INSERT INTO Staff VALUES ('S1011','NU109','Matt','Halford','76 Vault Rd, Apalachia,
97621','9095550976','M');
INSERT INTO Staff VALUES ('S1013','NU111','Kylie','Jordan','37 Redemption Way,
Fontana, 96371','9095556050','F');
INSERT INTO Staff VALUES ('S1015','NU113','Geoff','Sonrimor','517 Terrace St,
Riverside, 93899','9095550132','M');
INSERT INTO Staff VALUES ('S1017','NU115','Janice','Smith','28 Filrow Way, Upland,
93125','9095554790','F');
INSERT INTO Staff VALUES ('S1019','NU117','Terry','Fontaine','38 Vilford Way,
Riverside, 97654','9095556253','M');
INSERT INTO Staff VALUES ('S1021','NU119','Tilly','Arnold','953 Buford Rd, San
Bernardino, 91587','9095553021','F');
INSERT INTO Staff VALUES ('S1023','NU121','Trevor','Flatly','603 Toledo Bay,
Fontana, 93645','9095550662','M');
INSERT INTO Staff VALUES ('S1025','NU123','Phyllis','Claymore','216 Vespucci Beach,
Upland, 97321','9095551829','F');
INSERT INTO Staff VALUES ('S1027','NU125','Adam','Reynolds','111 Fiddleridge,
Fontana, 93346','9095553459','M');
INSERT INTO Staff VALUES ('S1029','NU127','Wendy','Robins','65 Wellback Row,
Upland, 96837','9095550152','F');
INSERT INTO Staff VALUES ('S1031','NU129','Roger','Wellington','762 Pillbox Ln, San
Bernardino, 95341','9095557800','M');
INSERT INTO Staff VALUES ('S1033','NU131','Margerie','Wilson','98 Vexford Ave,
Riverside, 91873','9095551450','F');
```



```

INSERT INTO Department VALUES ('ADMIN','Administration','S0000','07-JUN-00','9095556673','9095556698','A Block');
INSERT INTO Department VALUES ('BSCIS','Computer Information Systems','S1001','23-MAY-07','9095556670','9095556639','E Block');
INSERT INTO Department VALUES ('BSNRS','Nursing','S1003','07-NOV-15','9095553315','9095553310','E Block');
INSERT INTO Department VALUES ('CTMRK','Marketing','S1005','30-MAR-19','9095554565','9095554509','C Block');
INSERT INTO Department VALUES ('ACTFN','Accounting and Finance','S1007','16-JUL-08','9095552999','9095552983','C Block');
INSERT INTO Department VALUES ('CMMUN','Communication','S1009','23-FEB-03','9095553071','9095553000','B Block');
INSERT INTO Department VALUES ('ARTDS','Arts and Design','S1011','13-SEP-18','9095551092','9095551076','B Block');

```

```

INSERT INTO StaffWorkInfo VALUES
('S0000','ADMIN','AB051','12000','President','PhD Administration');
INSERT INTO StaffWorkInfo VALUES ('S1001','BSCIS','EB001','7000','Dept. Manager, Lecturer','MS CIS');
INSERT INTO StaffWorkInfo VALUES ('S1003','BSNRS','EB002','6800','Dept. Manager, Lecturer','BSN Nursing');
INSERT INTO StaffWorkInfo VALUES ('S1005','CTMRK','CB001','4500','Dept. Manager, Lecturer','MS Marketing');
INSERT INTO StaffWorkInfo VALUES ('S1007','ACTFN','CB002','8000','Dept. Manager, Lecturer','CPA');
INSERT INTO StaffWorkInfo VALUES ('S1009','CMMUN','BB001','7500','Dept. Manager, Lecturer','PhD Communication');
INSERT INTO StaffWorkInfo VALUES ('S1011','ARTDS','BB002','4876','Dept. Manager, Lecturer','MA Arts and Design');
INSERT INTO StaffWorkInfo VALUES ('S1013','ARTDS','BB003','5800','Lecturer','PhD Arts and Design');
INSERT INTO StaffWorkInfo VALUES ('S1015','ARTDS','BB004','4500','Lecturer','MA Design');
INSERT INTO StaffWorkInfo VALUES ('S1017','CMMUN','BB005','3800','Lecturer','MA Communication');
INSERT INTO StaffWorkInfo VALUES ('S1019','ACTFN','CB003','4500','Lecturer','MS Accounting');
INSERT INTO StaffWorkInfo VALUES ('S1021','ACTFN','CB004','4500','Lecturer','MS Accounting');
INSERT INTO StaffWorkInfo VALUES ('S1023','CTMRK','CB005','7800','Lecturer','PhD Marketing');
INSERT INTO StaffWorkInfo VALUES
('S1025','CTMRK','CB006','4900','Lecturer','Certificate Hospit Managmnt');
INSERT INTO StaffWorkInfo VALUES ('S1027','BSNRS','EB003','6300','Lecturer','BSN Nursing');

```

INSERT INTO StaffWorkInfo VALUES ('S1029','BSNRS','EB004','6500','Lecturer','BSN Nursing');

INSERT INTO StaffWorkInfo VALUES ('S1031','BSCIS','EB005','6400','Lecturer','MS Computer Science');

INSERT INTO StaffWorkInfo VALUES ('S1033','BSCIS','EB006','9000','Lecturer','PhD Computer Science');

INSERT INTO Course VALUES ('PgDIT','ARTDS','Design Studies','S1013','48');

INSERT INTO Course VALUES ('FADES','ARTDS','Design','S1015','48');

INSERT INTO Course VALUES ('COMMN','CMMUN','Communication','S1017','48');

INSERT INTO Course VALUES ('ACCNT','ACTFN','Accounting and Finance','S1019','48');

INSERT INTO Course VALUES ('FINNC','ACTFN','Finance','S1021','36');

INSERT INTO Course VALUES ('MnMRK','CTMRK','Marketing','S1023','24');

INSERT INTO Course VALUES ('CrtHM','CTMRK','Hospitality Management','S1025','12');

INSERT INTO Course VALUES ('NURSG','BSNRS','Nursing','S1027','48');

INSERT INTO Course VALUES ('RNBSN','BSNRS','RN to BSN','S1029','48');

INSERT INTO Course VALUES ('CmpSc','BSCIS','Computer Science','S1031','48');

INSERT INTO Course VALUES ('BIOIN','BSCIS','Bioinformatics','S1033','48');

INSERT INTO Module VALUES ('FNDDS','PgDIT','S1011','Fundamental Design','07-SEP-20','16-NOV-20','');

INSERT INTO Module VALUES ('STRBD','PgDIT','S1015','Storyboarding','07-SEP-20','16-NOV-20','Proper Storytelling');

INSERT INTO Module VALUES ('CHRDS','PgDIT','S1015','Character Design','07-SEP-20','16-NOV-20','');

INSERT INTO Module VALUES ('MULTM','FADES','S1011','Multi Media','07-SEP-20','16-NOV-20','Multi Media 101');

INSERT INTO Module VALUES ('3DGPH','FADES','S1013','3D Graphics','07-SEP-20','16-NOV-20','Meshes and Models');

INSERT INTO Module VALUES ('TOPGR','FADES','S1013','Topography','07-SEP-20','16-NOV-20','Book of Topography');

INSERT INTO Module VALUES ('INCMN','COMMN','S1009','Intro to Communication','07-SEP-20','9-NOV-20','Effective Communications');

INSERT INTO Module VALUES ('MDSOC','COMMN','S1017','Media and Society','07-SEP-20','9-NOV-20','Social Media');

INSERT INTO Module VALUES ('INTRN','COMMN','S1017','Internship','07-SEP-20','2-NOV-20','');

INSERT INTO Module VALUES ('ACNTG','ACCNT','S1007','Accounting','07-SEP-20','16-NOV-20','All About Accounting');

INSERT INTO Module VALUES ('ACTTX','ACCNT','S1019','Taxation','07-SEP-20','16-NOV-20','Death and Taxes');

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INSERT INTO Module VALUES ('AUDIT','ACCNT','S1019','Auditing','07-SEP-20','16-
NOV-20','IRS Audits');
INSERT INTO Module VALUES ('MRKEN','FINNC','S1007','Market and
Environment','07-SEP-20','16-NOV-20',
'The Global Market');
INSERT INTO Module VALUES ('FNANL','FINNC','S1021','Financial Analysis','07-SEP-
20','16-NOV-20',
'Financial Algorithms');
INSERT INTO Module VALUES ('CRPFN','FINNC','S1021','Corporate Finance','07-
SEP-20','16-NOV-20','');
INSERT INTO Module VALUES ('RSMTH','MnMRK','S1005','Research Methods','07-
SEP-20','16-NOV-20',
'Marketing Research');
INSERT INTO Module VALUES ('CNSMA','MnMRK','S1023','Consumer Analysis','07-
SEP-20','16-NOV-20',
'Marketing to the Consumer');
INSERT INTO Module VALUES ('DATAN','MnMRK','S1023','Data Analytics','07-SEP-
20','16-NOV-20','');
INSERT INTO Module VALUES ('HOTOP','CrthM','S1005','Hotel Operations','07-SEP-
20','16-NOV-20',
'Hospitality of Hotels');
INSERT INTO Module VALUES ('ENTMN','CrthM','S1025','Entertainment
Management','07-SEP-20','16-NOV-20',
'Managing the Entertainment Industry');
INSERT INTO Module VALUES ('HUMRS','CrthM','S1025','Human Resources','07-
SEP-20','16-NOV-20',
'Managing People');
INSERT INTO Module VALUES ('MCRBI','NURSG','S1003','Microbiology','07-SEP-
20','16-NOV-20',
'Microbiology 101');
INSERT INTO Module VALUES ('HUMAN','NURSG','S1027','Human Anatomy','07-SEP-
20','16-NOV-20',
'Discovering the Human Body');
INSERT INTO Module VALUES ('NRSCR','NURSG','S1027','Nursing Care','07-SEP-
20','16-NOV-20',
'Nursing Fundamentals');
INSERT INTO Module VALUES ('HLTAS','RNBSN','S1003','Health Assessment','07-
SEP-20','16-NOV-20',
'Assessing Individuals');
INSERT INTO Module VALUES ('PTHPH','RNBSN','S1029','Pathophysiology','07-SEP-
20','16-NOV-20',
'Illness and Disease');
INSERT INTO Module VALUES ('PHARM','RNBSN','S1029','Pharmacology','07-SEP-
20','16-NOV-20',
'Prescription RX');

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INSERT INTO Module VALUES ('MACHN','CmpSc','S1001','Machine Organization','07-SEP-20','16-NOV-20',
'Binary Structure');
INSERT INTO Module VALUES ('DATST','CmpSc','S1031','Data Structures','07-SEP-20','16-NOV-20',
'The C++ Language');
INSERT INTO Module VALUES ('DTBAS','CmpSc','S1031','Database Systems','07-SEP-20','16-NOV-20',
'Database Systems Manual');
INSERT INTO Module VALUES ('PRNCB','BIOIN','S1001','Principles of Biology','07-SEP-20','16-NOV-20',
'Biology 101');
INSERT INTO Module VALUES ('CMPSC','BIOIN','S1033','Computer Science','07-SEP-20','16-NOV-20',
'Intro to Computer Science');
INSERT INTO Module VALUES ('SEQAN','BIOIN','S1033','Sequence Analysis','07-SEP-20','16-NOV-20',
'Sequence Analysis');

INSERT INTO Student VALUES ('00101','FADES','George','Ruiz','M','111 Hampton Way','Upland','92568',
'BOG Waiver, CA Grant');
INSERT INTO Student VALUES ('00103','FADES','Melissa','Rogers','F','113 Helion Ave','Fontana','91736',
'CA Grant, Fed Pell Grant');
INSERT INTO Student VALUES ('00105','FADES','Kenny','Yu','M','82 Parcel Pl','Riverside','96813',
'Standard Unsubsidized');
INSERT INTO Student VALUES ('00107','FADES','Kathy','Bates','F','19 Rowena Rd','San Bernardino',
'92568','BOG Waiver');
INSERT INTO Student VALUES ('00109','FADES','Ryan','Malone','M','239 Huntmaster','Fontana','93662',
'Standard Subsidized');
INSERT INTO Student VALUES ('00111','FADES','Milly','Caspene','F','28 Elm St','Riverside','95668',
'Fed Pell Grant, Standard Subsidized');
INSERT INTO Student VALUES ('00113','FADES','Hank','Aaron','M','32 Calibre Way','San Bernardino',
'92568','BOG Waiver, Standard Unsubsidized');
INSERT INTO Student VALUES ('00115','FADES','Emma','Stone','F','189 Hampton Way','Upland','92568',
'CA Grant, Standard Subsidized');
INSERT INTO Student VALUES ('00117','FADES','Matthew','Rodriguez','M','5834 Foxtail','Fontana','92551',
'Standard Subsidized and Unsubsidized');

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INSERT INTO Student VALUES ('00119','FADES','Mary','Sampsonite','F','52 Dumber
Way','Fontana','98711',
'Standard Unsubsidized');
INSERT INTO Student VALUES ('00121','FADES','Lloyd','Flarson','M','19 Climber
Path','San Bernardino',
'97762','BOG Waiver');
INSERT INTO Student VALUES ('00123','CmpSc','Nate','Fakename','M','738
Ridgeback','Upland','99932',
'Standard Subsidized, Fed Pell Grant');
INSERT INTO Student VALUES ('00125','CmpSc','Cesar','Notrealname','M','24
Diamondback Ridge',
'Riverside','95701','CA Grant, Fed Pell Grant');
INSERT INTO Student VALUES ('00127','PgDIT','Sarah','Wilson','F','328 Greenleaf
Ave','Orange','95690',
'BOG Waiver, Fed Pell Grant');
INSERT INTO Student VALUES ('00129','COMMN','Harry','Roosevelt','M','10 Lincoln
Rd','Anaheim','91766',
'Standard Subsidized, CA Grant');
INSERT INTO Student VALUES ('00131','ACCNT','Logan','Smith','M','576 Robco
Path','Palm Springs',
'98362','Standard Unsubsidized');
INSERT INTO Student VALUES ('00133','FINNC','Jane','Seymour','F','890 Beverly
Hills','Los Angeles',
'90210','Standard Unsubsidized');
INSERT INTO Student VALUES ('00135','MnMRK','John','Zipsky','M','25 Hillshire
Way','Fontana','95622',
'Fed Pell Grant, BOG Waiver');
INSERT INTO Student VALUES ('00137','CrtHM','Cal','Ripken','M','918 Farmflair
Pl','Upland','93325',
'Standard Unsubsidized, BOG Waiver');
INSERT INTO Student VALUES ('00139','NURSG','Jenna','Zalinski','F','13 Fairview
Rd','San Bernardino',
'95036','Standard Subsidized, CA Grant');
INSERT INTO Student VALUES ('00141','RNBSN','Talía','Hodgkins','F','2931 Hipster
Place','Anaheim',
'91557','Fed Pell Grant, CA Grant');

INSERT INTO NextKin VALUES ('00101','Harold','111 Hampton Way, Upland,
92568','9095553102','Parent');
INSERT INTO NextKin VALUES ('00103','Sally','113 Helion Ave, Fontana,
91736','9095552862','Parent');
INSERT INTO NextKin VALUES ('00105','Wilma','82 Parcel Pl, Riverside,
96813','9095550193','Sister');
INSERT INTO NextKin VALUES ('00107','Fred','19 Rowena Rd, San Bernardino,
92568','9095553297','Parent');

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INSERT INTO NextKin VALUES ('00109','Jake','239 Huntmaster, Fontana,  
 93662','9095551004','Brother');  
 INSERT INTO NextKin VALUES ('00111','Teddy','28 Elm St, Riverside,  
 95668','9095556890','Brother');  
 INSERT INTO NextKin VALUES ('00113','Gabriel','32 Calibre Way, San Bernardino,  
 92568','9095550186','Sister');  
 INSERT INTO NextKin VALUES ('00115','Gina','189 Hampton Way, Upland,  
 92568','9095553492','Sister');  
 INSERT INTO NextKin VALUES ('00117','Alexis','5834 Foxtail, Fontana,  
 92551','9095553196','Sister');  
 INSERT INTO NextKin VALUES ('00119','Hank','52 Dumber Way, Fontana,  
 98711','9095555169','Parent');  
 INSERT INTO NextKin VALUES ('00121','Lupe','19 Climber Path, San Bernardino,  
 97762','9095556179','Grandparent');  
 INSERT INTO NextKin VALUES ('00123','Robert','738 Ridgeback, Upland,  
 99932','9095552684','Parent');  
 INSERT INTO NextKin VALUES ('00125','Ron','24 Diamondback Ridge, Riverside,  
 95701','9095551671','Grandparent');  
 INSERT INTO NextKin VALUES ('00127','Terrance','328 Greenleaf Ave, Orange,  
 95690','9095552151','Brother');  
 INSERT INTO NextKin VALUES ('00129','John','10 Lincoln Rd, Anaheim,  
 91766','9095552121','Uncle');  
 INSERT INTO NextKin VALUES ('00131','Maud','576 Robco Path, Palm  
 Springs','9095553817','Aunt');  
 INSERT INTO NextKin VALUES ('00133','Tim','890 Beverly Hills, Los Angeles ,  
 90210','9095550103','Son');  
 INSERT INTO NextKin VALUES ('00135','Greg','25 Hillshire Way, Fontana,  
 95622','9095552180','Uncle');  
 INSERT INTO NextKin VALUES ('00137','David','918 Farmflair Pl, Upland,  
 93325','9095552453','Grandparent');  
 INSERT INTO NextKin VALUES ('00139','Angelina','13 Fairview Rd, San Bernardino,  
 95036','9095552015','Parent');  
 INSERT INTO NextKin VALUES ('00141','Sheba','2931 Hipster Place, Anaheim,  
 91557','9095551488','Aunt');

INSERT INTO Performance VALUES ('00101','MULTM','A');  
 INSERT INTO Performance VALUES ('00103','MULTM','B');  
 INSERT INTO Performance VALUES ('00105','MULTM','C');  
 INSERT INTO Performance VALUES ('00107','MULTM','F');  
 INSERT INTO Performance VALUES ('00109','MULTM','F');  
 INSERT INTO Performance VALUES ('00111','MULTM','A');  
 INSERT INTO Performance VALUES ('00113','MULTM','C');  
 INSERT INTO Performance VALUES ('00115','MULTM','B');  
 INSERT INTO Performance VALUES ('00117','MULTM','B');  
 INSERT INTO Performance VALUES ('00119','MULTM','C');  
 INSERT INTO Performance VALUES ('00121','MULTM','A');

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INSERT INTO Performance VALUES ('00123','DTBAS','A');
INSERT INTO Performance VALUES ('00125','MACHN','B');
INSERT INTO Performance VALUES ('00127','FNDDS','B');
INSERT INTO Performance VALUES ('00129','MDSOC','A');
INSERT INTO Performance VALUES ('00131','AUDIT','C');
INSERT INTO Performance VALUES ('00133','CRPFN','F');
INSERT INTO Performance VALUES ('00135','DATAN','B');
INSERT INTO Performance VALUES ('00137','HUMRS','F');
INSERT INTO Performance VALUES ('00139','MCRBI','C');
INSERT INTO Performance VALUES ('00141','PHARM','A');

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INSERT INTO Teaching VALUES ('S1011','FNDDS','4');
INSERT INTO Teaching VALUES ('S1015','STRBD','3');
INSERT INTO Teaching VALUES ('S1015','CHRDS','8');
INSERT INTO Teaching VALUES ('S1011','MULTM','6');
INSERT INTO Teaching VALUES ('S1013','3DGPH','2');
INSERT INTO Teaching VALUES ('S1013','TOPGR','3');
INSERT INTO Teaching VALUES ('S1009','INCMN','1');
INSERT INTO Teaching VALUES ('S1017','MDSOC','1');
INSERT INTO Teaching VALUES ('S1017','INTRN','6');
INSERT INTO Teaching VALUES ('S1007','ACNTG','4');
INSERT INTO Teaching VALUES ('S1019','ACTTX','8');
INSERT INTO Teaching VALUES ('S1019','AUDIT','10');
INSERT INTO Teaching VALUES ('S1007','MRKEN','10');
INSERT INTO Teaching VALUES ('S1021','FNANL','4');
INSERT INTO Teaching VALUES ('S1021','CRPFN','4');
INSERT INTO Teaching VALUES ('S1005','RSMTH','2');
INSERT INTO Teaching VALUES ('S1023','CNSMA','6');
INSERT INTO Teaching VALUES ('S1023','DATAN','2');
INSERT INTO Teaching VALUES ('S1005','HOTOP','2');
INSERT INTO Teaching VALUES ('S1025','ENTMN','6');
INSERT INTO Teaching VALUES ('S1025','HUMRS','4');
INSERT INTO Teaching VALUES ('S1003','MCRBI','2');
INSERT INTO Teaching VALUES ('S1027','HUMAN','1');
INSERT INTO Teaching VALUES ('S1027','NRSCR','1');
INSERT INTO Teaching VALUES ('S1003','HLTAS','2');
INSERT INTO Teaching VALUES ('S1029','PTHPH','3');
INSERT INTO Teaching VALUES ('S1029','PHARM','4');
INSERT INTO Teaching VALUES ('S1001','MACHN','4');
INSERT INTO Teaching VALUES ('S1031','DATST','3');
INSERT INTO Teaching VALUES ('S1031','DTBAS','2');
INSERT INTO Teaching VALUES ('S1001','PRNCB','6');
INSERT INTO Teaching VALUES ('S1033','CMPSC','8');
INSERT INTO Teaching VALUES ('S1033','SEQAN','6');

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SET CONSTRAINTS ALL IMMEDIATE;

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STAFF NETWO FNAME	LNAME	ADDRESS
STAFF_PHONE S		
S0000 NU000 Chuck	Norris	53 Main St, Fontana, 95671
9095557263 M		
S1001 NU100 Elaine	Willis	139 Vivaldi Ave, Fontana, 93762
9095553878 F		
S1003 NU101 Jordan	Ogadikwe	365 Franklin Blvd, Upland, 91650
9095551248 M		
S1005 NU103 Katherine	Dierst	325 Michael Rd, San Bernardino, 95176
9095555876 F		
S1007 NU105 Roger	Yang	29 Filrow Way, Upland, 93125
9095556971 M		
S1009 NU107 Chrissie	Bjord	119 Trevor Place, Fontana, 97653
9095558892 F		
S1011 NU109 Matt	Halford	76 Vault Rd, Apalachia, 97621
9095550976 M		
S1013 NU111 Kylie	Jordan	37 Redemption Way, Fontana, 96371
9095556050 F		
S1015 NU113 Geoff	Sonrimor	517 Terrace St, Riverside, 93899
9095550132 M		
S1017 NU115 Janice	Smith	28 Filrow Way, Upland, 93125
9095554790 F		
S1019 NU117 Terry	Fontaine	38 Vilford Way, Riverside, 97654
9095556253 M		
S1021 NU119 Tilly	Arnold	953 Buford Rd, San Bernardino, 91587
9095553021 F		
S1023 NU121 Trevor	Flatley	603 Toledo Bay, Fontana, 93645
9095550662 M		
S1025 NU123 Phyllis	Claymore	216 Vespucci Beach, Upland, 97321
9095551829 F		
S1027 NU125 Adam	Reynolds	111 Fiddleridge, Fontana, 93346
9095553459 M		
S1029 NU127 Wendy	Robins	65 Wellback Row, Upland, 96837
9095550152 F		
S1031 NU129 Roger	Wellington	762 Pillbox Ln, San Bernardino, 95341
9095557800 M		
S1033 NU131 Margerie	Wilson	98 Vexford Ave, Riverside, 91873
9095551450 F		

18 rows selected.



STAFF DEPTI OFFIC	SALARY POSITION	QUALIFICATIONS
S0000 ADMIN AB051	12000 President	PhD Administration
S1001 BSCIS EB001	7000 Dept. Manager, Lecturer	MS CIS
S1003 BSNRS EB002	6800 Dept. Manager, Lecturer	BSN Nursing
S1005 CTMRK CB001	4500 Dept. Manager, Lecturer	MS Marketing
S1007 ACTFN CB002	8000 Dept. Manager, Lecturer	CPA
S1009 CMMUN BB001	7500 Dept. Manager, Lecturer	PhD Communication
S1011 ARTDS BB002	4876 Dept. Manager, Lecturer	MA Arts and Design
S1013 ARTDS BB003	5800 Lecturer	PhD Arts and Design
S1015 ARTDS BB004	4500 Lecturer	MA Design
S1017 CMMUN BB005	3800 Lecturer	MA Communication
S1019 ACTFN CB003	4500 Lecturer	MS Accounting
S1021 ACTFN CB004	4500 Lecturer	MS Accounting
S1023 CTMRK CB005	7800 Lecturer	PhD Marketing
S1025 CTMRK CB006	4900 Lecturer	Certificate Hospit Managmnt
S1027 BSNRS EB003	6300 Lecturer	BSN Nursing
S1029 BSNRS EB004	6500 Lecturer	BSN Nursing
S1031 BSCIS EB005	6400 Lecturer	MS Computer Science
S1033 BSCIS EB006	9000 Lecturer	PhD Computer Science

18 rows selected.

COURS	DEPTI	COURSE_TITLE	STAFF	DURATION
PgDIT	ARTDS	Design Studies	S1013	48
FADES	ARTDS	Design	S1015	48
COMMUN	CMMUN	Communication	S1017	48
ACCNT	ACTFN	Accounting and Finance	S1019	48
FINNC	ACTFN	Finance	S1021	36
MnMRK	CTMRK	Marketing	S1023	24
CrtHM	CTMRK	Hospitality Management	S1025	12
NURSG	BSNRS	Nursing	S1027	48
RNBSN	BSNRS	RN to BSN	S1029	48
CmpSc	BSCIS	Computer Science	S1031	48
BIOIN	BSCIS	Bioinformatics	S1033	48

11 rows selected.

DEPTI	DEPT_NAME	STAFF	MGR	STARTD	DEPT_PHONE	FAX	LOCATION
ADMIN	Administration	S0000		07-JUN-00	9095556673	9095556698	A Block
BSCIS	Computer Information Systems	S1001		23-MAY-07	9095556670	9095556639	E Block
BSNRS	Nursing	S1003		07-NOV-15	9095553315	9095553310	E Block
CTMRK	Marketing	S1005		30-MAR-19	9095554565	9095554509	C Block
ACTFN	Accounting and Finance	S1007		16-JUL-08	9095552999	9095552983	C Block
CMMUN	Communication	S1009		23-FEB-03	9095553071	9095553000	B Block
ARTDS	Arts and Design	S1011		13-SEP-18	9095551092	9095551076	B Block

7 rows selected.

MODUL	COURS	STAFF	MODULE_TITLE	MOD_START	MOD_END
FNDDS	PgDIT S1011		Fundamental Design	07-SEP-20	16-NOV-20
STRBD	PgDIT S1015		Storyboarding	07-SEP-20	16-NOV-20
			Proper Storytelling		
CHRDS	PgDIT S1015		Character Design	07-SEP-20	16-NOV-20
MULTM	FADES S1011		Multi Media	07-SEP-20	16-NOV-20
			Multi Media 101		
3DGPH	FADES S1013		3D Graphics	07-SEP-20	16-NOV-20
			Meshes and Models		
TOPGR	FADES S1013		Topography	07-SEP-20	16-NOV-20
			Book of Topography		
INCMN	COMMN S1009		Intro to Communication	07-SEP-20	09-NOV-20
			Effective Communications		
MDSOC	COMMN S1017		Media and Society	07-SEP-20	09-NOV-20
			Social Media		
INTRN	COMMN S1017		Internship	07-SEP-20	02-NOV-20
ACNTG	ACCNT S1007		Accounting	07-SEP-20	16-NOV-20
			All About Accounting		
ACTTX	ACCNT S1019		Taxation	07-SEP-20	16-NOV-20
			Death and Taxes		
AUDIT	ACCNT S1019		Auditing	07-SEP-20	16-NOV-20
			IRS Audits		
MRKEN	FINNC S1007		Market and Environment	07-SEP-20	16-NOV-20
			The Global Market		
FNANL	FINNC S1021		Financial Analysis	07-SEP-20	16-NOV-20
			Financial Algorithms		
CRPFN	FINNC S1021		Corporate Finance	07-SEP-20	16-NOV-20
RSMTH	MnMRK S1005		Research Methods	07-SEP-20	16-NOV-20
			Marketing Research		

CNSMA MnMRK S1023 Consumer Analysis Marketing to the Consumer	07-SEP-20 16-NOV-20
DATAN MnMRK S1023 Data Analytics	07-SEP-20 16-NOV-20
HOTOP CrthM S1005 Hotel Operations Hospitality of Hotels	07-SEP-20 16-NOV-20
ENTMN CrthM S1025 Entertainment Management Managing the Entertainment Industry	07-SEP-20 16-NOV-20
HUMRS CrthM S1025 Human Resources Managing People	07-SEP-20 16-NOV-20
MCRBI NURSG S1003 Microbiology Microbiology 101	07-SEP-20 16-NOV-20
HUMAN NURSG S1027 Human Anatomy Discovering the Human Body	07-SEP-20 16-NOV-20
NRSCR NURSG S1027 Nursing Care Nursing Fundamentals	07-SEP-20 16-NOV-20
HLTAS RNBSN S1003 Health Assessment Assessing Individuals	07-SEP-20 16-NOV-20
PTHPH RNBSN S1029 Pathophysiology Illness and Disease	07-SEP-20 16-NOV-20
PHARM RNBSN S1029 Pharmacology Prescription RX	07-SEP-20 16-NOV-20
MACHN CmpSc S1001 Machine Organization Binary Structure	07-SEP-20 16-NOV-20
DATST CmpSc S1031 Data Structures The C++ Language	07-SEP-20 16-NOV-20
DTBAS CmpSc S1031 Database Systems Database Systems Manual	07-SEP-20 16-NOV-20
PRNCB BIOIN S1001 Principles of Biology Biology 101	07-SEP-20 16-NOV-20
CMPSC BIOIN S1033 Computer Science Intro to Computer Science	07-SEP-20 16-NOV-20
SEQAN BIOIN S1033 Sequence Analysis Sequence Analysis	07-SEP-20 16-NOV-20

33 rows selected.

MATRI	COURS	FNAME	LNAME	S	STREET	TOWN
POSTAL_CODE						
-----						
FINANCIAL_LOAN						
-----						
00101	FADES	George	Ruiz	M	111 Hampton Way	Upland
92568						
BOG Waiver, CA Grant						

00103 FADES Melissa 91736 CA Grant, Fed Pell Grant	Rogers	F	113 Helion Ave	Fontana
00105 FADES Kenny 96813 Standard Unsubsidized	Yu	M	82 Parcel Pl	Riverside
00107 FADES Kathy 92568 BOG Waiver	Bates	F	19 Rowena Rd	San Bernardino
00109 FADES Ryan 93662 Standard Subsidized	Malone	M	239 Huntmaster	Fontana
00111 FADES Milly 95668 Fed Pell Grant, Standard Subsidized	Caspene	F	28 Elm St	Riverside
00113 FADES Hank 92568 BOG Waiver, Standard Unsubsidized	Aaron	M	32 Calibre Way	San Bernardino
00115 FADES Emma 92568 CA Grant, Standard Subsidized	Stone	F	189 Hampton Way	Upland
00117 FADES Matthew 92551 Standard Subsidized and Unsubsidized	Rodriguez	M	5834 Foxtail	Fontana
00119 FADES Mary 98711 Standard Unsubsidized	Sampsonite	F	52 Dumber Way	Fontana
00121 FADES Lloyd Bernardino 97762 BOG Waiver	Flarson	M	19 Climber Path	San
00123 BSCIS Nate 99932 Standard Subsidized, Fed Pell Grant	Fakename	M	738 Ridgeback	Upland

00125 BSCIS Cesar 95701 CA Grant, Fed Pell Grant	Notrealname	M	24 Diamondback Ridge	Riverside
00127 PgDIT Sarah 95690 BOG Waiver, Fed Pell Grant	Wilson	F	328 Greenleaf Ave	Orange
00129 COMMN Harry 91766 Standard Subsidized, CA Grant	Roosevelt	M	10 Lincoln Rd	Anaheim
00131 ACCNT Logan Springs 98362 Standard Unsubsidized	Smith	M	576 Robco Path	Palm
00133 FINNC Jane 90210 Standard Unsubsidized	Seymour	F	890 Beverly Hills	Los Angeles
00135 MnMRK John 95622 Fed Pell Grant, BOG Waiver	Zipsky	M	25 Hillshire Way	Fontana
00137 CrtHM Cal 93325 Standard Unsubsidized, BOG Waiver	Ripken	M	918 Farmflair Pl	Upland

MATRI COURS	FNAME	LNAME	S	STREET	TOWN
POSTAL_CODE					

-----  
FINANCIAL\_LOAN

00139 NURSG Jenna 95036 Standard Subsidized, CA Grant	Zalinski	F	13 Fairview Rd	San Bernardino
00141 RNBSN Talia 91557 Fed Pell Grant, CA Grant	Hodgkins	F	2931 Hipster Place	Anaheim

21 rows selected.

MATRI	NOKNAME	NOKADDRESS	NOKPHONE	RELATIONSHIP
00101	Harold	111 Hampton Way, Upland, 92568	9095553102	Parent
00103	Sally	113 Helion Ave, Fontana, 91736	9095552862	Parent
00105	Wilma	82 Parcel Pl, Riverside, 96813	9095550193	Sister
00107	Fred	19 Rowena Rd, San Bernardino, 92568	9095553297	Parent
00109	Jake	239 Huntmaster, Fontana, 93662	9095551004	Brother
00111	Teddy	28 Elm St, Riverside, 95668	9095556890	Brother
00113	Gabriel	32 Calibre Way, San Bernardino, 92568	9095550186	Sister
00115	Gina	189 Hampton Way, Upland, 92568	9095553492	Sister
00117	Alexis	5834 Foxtail, Fontana, 92551	9095553196	Sister
00119	Hank	52 Dumber Way, Fontana, 98711	9095555169	Parent
00121	Lupe	19 Climber Path, San Bernardino, 97762	9095556179	Grandparent
00123	Robert	738 Ridgeback, Upland, 99932	9095552684	Parent
00125	Ron	24 Diamondback Ridge, Riverside, 95701	9095551671	Grandparent
00127	Terrance	328 Greenleaf Ave, Orange, 95690	9095552151	Brother
00129	John	10 Lincoln Rd, Anaheim, 91766	9095552121	Uncle
00131	Maud	576 Robco Path, Palm Springs	9095553817	Aunt
00133	Tim	890 Beverly Hills, Los Angeles , 90210	9095550103	Son
00135	Greg	25 Hillshire Way, Fontana, 95622	9095552180	Uncle
00137	David	918 Farmflair Pl, Upland, 93325	9095552453	Grandparent
00139	Angelina	13 Fairview Rd, San Bernardino, 95036	9095552015	Parent
00141	Sheba	2931 Hipster Place, Anaheim, 91557	9095551488	Aunt

21 rows selected.

MATRI	MODUL	G
-----	-----	-
00101	MULTM	A
00103	MULTM	B
00105	MULTM	C
00107	MULTM	F
00109	MULTM	F
00111	MULTM	A
00113	MULTM	C
00115	MULTM	B
00117	MULTM	B
00119	MULTM	C
00121	MULTM	A
00123	DTBAS	A
00125	MACHN	B
00127	FNDDES	B
00129	MDSOC	A
00131	AUDIT	C

00133	CRPFN	F
00135	DATAN	B
00137	HUMRS	F
00139	MCRBI	C
00141	PHARM	A

21 rows selected.

STAFF	MODUL	HOURS
----	----	-----
S1011	FNDDS	4
S1015	STRBD	3
S1015	CHRDS	8
S1011	MULTM	6
S1013	3DGPH	2
S1013	TOPGR	3
S1009	INCMN	1
S1017	MDSOC	1
S1017	INTRN	6
S1007	ACNTG	4
S1019	ACTTX	8
S1019	AUDIT	10
S1007	MRKEN	10
S1021	FNANL	4
S1021	CRPFN	4
S1005	RSMTH	2
S1023	CNSMA	6
S1023	DATAN	2
S1005	HOTOP	2
S1025	ENTMN	6
S1025	HUMRS	4
S1003	MCRBI	2
S1027	HUMAN	1
S1027	NRSCR	1
S1003	HLTAS	2
S1029	PTHPH	3
S1029	PHARM	4
S1001	MACHN	4
S1031	DATST	3
S1031	DTBAS	2
S1001	PRNCB	6
S1033	COMPSC	8
S1033	SEQAN	6

33 rows selected.

# Project Queries

## A-I. Queries

```
-- Project Option: University Database
-- Purpose: Project Queries - transaction requirements for the University database
-- Author: Nathan Cottrell, SID: 006765987

-- set formatting options
SET PAUSE OFF
SET ECHO ON
SET LINESIZE 132
SET PAGESIZE 60

-- save queries to an output file
SPOOL projectQueries.txt

-- 1. List details of all departments located in E Block.
SELECT *
    FROM NCOT.Department
    WHERE location = 'E Block';

-- 2. List title, start and end dates of all modules run in the PgDIT course.
SELECT module_title, mod_start, mod_end
    FROM NCOT.Module
    WHERE course_code = 'PgDIT';

-- 3. List name, address, and salary for each female member of academic staff
--    who manages a department.
SELECT s.fName || ' ' || s.lName AS Name, s.address, m.salary
    FROM NCOT.Staff s, NCOT.StaffWorkInfo m
    WHERE s.staff_number = m.staff_number AND s.sex = 'F' AND m.position LIKE
'%Dept. Manager%';

-- 4. List name, sex, and salary for each lecturer with a PhD degree.
SELECT s.fName || ' ' || s.lName AS Name, s.sex, sw.salary
    FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
    WHERE s.staff_number = sw.staff_number AND sw.position LIKE '%Lecturer%'
AND sw.qualifications LIKE '%PhD%';

-- 5. List last name, position, and qualifications of all members of academic staff
--    who are employed by CIS department.
SELECT s.lName, sw.position, sw.qualifications
    FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
    WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';
```



```

-- 6. List matriculation number, last name, and sex of all students who are
-- studying 'multi-media' module. Order result alphabetically by last name.
SELECT matricNo, IName, sex
FROM NCOT.Student
WHERE course_code IN
    (SELECT course_code
     FROM NCOT.Module
     WHERE module_code = 'MULTM')
ORDER BY IName;

-- 7. List staff number, last name, sex, and post of all academic staff whose
-- salary is greater than the average salary of all academic staff.
SELECT s.staff_number, s.IName, s.sex, sw.position
FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
WHERE s.staff_number = sw.staff_number AND sw.salary >
    (SELECT AVG(salary)
     FROM NCOT.StaffWorkInfo);

-- 8. For each course with more than 10 students, list course title and the
-- number of students (under an appropriate header).
SELECT course_code, COUNT(matricNo) "Number of Students"
FROM NCOT.Student
WHERE course_code = 'FADES'
GROUP BY course_code;

-- 9. List the number of female members of academic staff and the number of
-- male members of academic staff employed by CIS department.
SELECT COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female Staff",
COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"
FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';

-- 10. For each member of academic staff who spends more than 6 hours teaching
-- any module list the member of academic staff last name, the module title
-- and the number of hours.
SELECT s.IName, m.module_title, t.hours
FROM NCOT.Staff s, NCOT.Module m, NCOT.Teaching t
WHERE s.staff_number = m.staff_number AND m.staff_number = t.staff_number
AND t.hours > 6;

-- 11. For each department list the department name, and the number of female
-- members of academic staff, and the number of male members of academic
-- staff under appropriate headers.
SELECT d.dept_name, COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female Staff",
COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"
FROM NCOT.Department d, NCOT.Staff s, NCOT.StaffWorkInfo sw

```

```
WHERE d.deptID = sw.deptID AND s.staff_number = sw.staff_number  
GROUP BY d.dept_name  
ORDER BY d.dept_name;
```

```
SET ECHO OFF
```

```
-- stop saving queries to output file
```

```
SPOOL off
```

## A-II. Views

```
-- Project Option: University Database
-- Purpose: Project Views - different view for the University database project option
-- Author: Nathan Cottrell, SID: 006765987

-- set formatting options
SET LINESIZE 132
SET PAGESIZE 60
SET PAUSE OFF

-- save view queries to output file
SPOOL projectViews.txt

-- 1. List details of all departments located in E Block.
CREATE VIEW eBlockDepts AS
SELECT *
    FROM NCOT.Department
    WHERE location = 'E Block';

SELECT *
    FROM NCOT.eBlockDepts;

-- 2. List title, start and end dates of all modules run in the PgDIT course.
CREATE VIEW PgDITModules AS
SELECT module_title, mod_start, mod_end
    FROM NCOT.Module
    WHERE course_code = 'PgDIT';

SELECT *
    FROM NCOT.PgDITModules;

-- 3. List name, address, and salary for each female member of academic staff
--    who manages a department.
CREATE VIEW femaleManagers AS
SELECT s.fName || ' ' || s.lName AS Name, s.address, m.salary
    FROM NCOT.Staff s, NCOT.StaffWorkInfo m
    WHERE s.staff_number = m.staff_number AND s.sex = 'F' AND m.position LIKE
'%Dept. Manager%';

SELECT *
    FROM NCOT.femaleManagers;

-- 4. List name, sex, and salary for each lecturer with a PhD degree.
CREATE VIEW pdhLecturers AS
SELECT s.fName || ' ' || s.lName AS Name, s.sex, sw.salary
```

```

        FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
        WHERE s.staff_number = sw.staff_number AND sw.position LIKE '%Lecturer%'
AND sw.qualifications LIKE '%PhD%';

```

```

SELECT *
    FROM NCOT.pdhLecturers;

```

```

-- 5. List last name, position, and qualifications of all members of academic staff
--    who are employed by the CIS department.

```

```

CREATE VIEW BSCISdeptStaff AS
SELECT s.IName, sw.position, sw.qualifications
    FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
    WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';

```

```

SELECT *
    FROM NCOT.BSCISdeptStaff;

```

```

-- 6. List matriculation number, last name, and sex of all students who are
--    studying the 'Multi Media' module. Order result alphabetically by last name.

```

```

CREATE VIEW multMedStud AS
SELECT matricNo, IName, sex
    FROM NCOT.Student
    WHERE course_code IN
        (SELECT course_code
            FROM NCOT.Module
            WHERE module_code = 'MULTM')
    ORDER BY IName;

```

```

SELECT *
    FROM NCOT.multMedStud;

```

```

-- 7. List staff number, last name, sex, and post of all academic staff whose
--    salary is greater than the average salary of all academic staff.

```

```

CREATE VIEW highPayStaff AS
SELECT s.staff_number, s.IName, s.sex, sw.position
    FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
    WHERE s.staff_number = sw.staff_number AND sw.salary >
        (SELECT AVG(salary)
            FROM NCOT.StaffWorkInfo);

```

```

SELECT *
    FROM NCOT.highPayStaff;

```

```

-- 8. List the number of female members of academic staff and the number of
--    male members of academic staff employed by the BSCIS department.

```

```

CREATE VIEW maleFemaleBSCISStaff AS

```

```

SELECT COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female Staff",
       COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"
FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';

```

```

SELECT *
FROM NCOT.maleFemaleBSCISStaff;

```

```

-- 9. For each member of academic staff who spends more than 6 hours teaching
-- any module list the member of academic staff last name, the module title
-- and the number of hours.

```

```

CREATE VIEW sixPlusHours AS
SELECT s.IName, m.module_title, t.hours
FROM NCOT.Staff s, NCOT.Module m, NCOT.Teaching t
WHERE s.staff_number = m.staff_number AND m.staff_number = t.staff_number
AND t.hours > 6;

```

```

SELECT *
FROM NCOT.sixPlusHours;

```

```

-- 10. For each department list the department name, and the number of female
-- members of academic staff, and the number of male members of academic
-- staff under appropriate headers.

```

```

CREATE VIEW maleFemaleStaff AS
SELECT d.dept_name, COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female Staff",
       COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"
FROM NCOT.Department d, NCOT.Staff s, NCOT.StaffWorkInfo sw
WHERE d.deptID = sw.deptID AND s.staff_number = sw.staff_number
GROUP BY d.dept_name
ORDER BY d.dept_name;

```

```

SELECT *
FROM NCOT.maleFemaleStaff;

```

```

-- stop saving view queries to output file
SPOOL off

```

# Project Queries

## B-I. Query Results

SQL>

SQL> -- 1. List details of all departments located in E Block.

SQL> SELECT \*

```
2      FROM NCOT.Department
3      WHERE location = 'E Block';
```

DEPTI	DEPT_NAME	STAFF MGR	STARTD	DEPT_PHONE	FAX
-----	-----	-----	-----	-----	-----
BSCIS	Computer Information Systems	S1001	23-MAY-07	9095556670	9095556639
E Block					
BSNRS	Nursing	S1003	07-NOV-15	9095553315	9095553310
E Block					

SQL>

SQL> -- 2. List title, start and end dates of all modules run in the PgDIT course.

SQL> SELECT module\_title, mod\_start, mod\_end

```
2      FROM NCOT.Module
3      WHERE course_code = 'PgDIT';
```

MODULE_TITLE	MOD_START	MOD_END
-----	-----	-----
Fundamental Design	07-SEP-20	16-NOV-20
Storyboarding	07-SEP-20	16-NOV-20
Character Design	07-SEP-20	16-NOV-20

SQL>

SQL> -- 3. List name, address, and salary for each female member of academic staff

SQL> -- who manages a department.

SQL> SELECT s.fName || ' ' || s.lName AS Name, s.address, m.salary

```
2      FROM NCOT.Staff s, NCOT.StaffWorkInfo m
3      WHERE s.staff_number = m.staff_number AND s.sex = 'F' AND m.position
LIKE '%Dept. Manager%';
```

NAME	ADDRESS	SALARY
-----	-----	-----
Elaine Willis	139 Vivaldi Ave, Fontana, 93762	7000
Katherine Dierst	325 Michael Rd, San Bernardino, 95176	4500
Chrissie Bjord	119 Trevor Place, Fontana, 97653	7500

SQL>

SQL> -- 4. List name, sex, and salary for each lecturer with a PhD degree.

SQL> SELECT s.fName || ' ' || s.lName AS Name, s.sex, sw.salary

```
2      FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
```

```

3      WHERE s.staff_number = sw.staff_number AND sw.position LIKE
'%Lecturer%' AND sw.qualifications LIKE '%PhD%';

```

NAME	S	SALARY
-----	--	-----
Chrissie Bjord	F	7500
Kylie Jordan	F	5800
Trevor Flately	M	7800
Margerie Wilson	F	9000

SQL>

SQL> -- 5. List last name, position, and qualifications of all members of academic staff  
SQL> -- who are employed by CIS department.

```

SQL> SELECT s.IName, sw.position, sw.qualifications
2      FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
3      WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';

```

LNAME	POSITION	QUALIFICATIONS
-----	-----	-----
Willis	Dept. Manager, Lecturer	MS CIS
Wellington	Lecturer	MS Computer Science
Wilson	Lecturer	PhD Computer Science

SQL> -- 6. List matriculation number, last name, and sex of all students who are  
SQL> -- studying 'multi-media' module. Order result alphabetically by last name.

```

SQL> SELECT matricNo, IName, sex
2      FROM NCOT.Student
3      WHERE course_code IN
4          (SELECT course_code
5            FROM NCOT.Module
6            WHERE module_code = 'MULTM')
7      ORDER BY IName;

```

MATRI	LNAME	S
-----	-----	--
00113	Aaron	M
00107	Bates	F
00111	Caspene	F
00121	Flarson	M
00109	Malone	M
00117	Rodriguez	M
00103	Rogers	F
00101	Ruiz	M
00119	Sampsonite	F
00115	Stone	F
00105	Yu	M

11 rows selected.

SQL>

SQL> -- 7. List staff number, last name, sex, and post of all academic staff whose

SQL> -- salary is greater than the average salary of all academic staff.

```
SQL> SELECT s.staff_number, s.lName, s.sex, sw.position
2      FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
3      WHERE s.staff_number = sw.staff_number AND sw.salary >
4            (SELECT AVG(salary)
5             FROM NCOT.StaffWorkInfo);
```

STAFF	LNAME	S	POSITION
-----	-----	--	-----
S0000	Norris	M	President
S1001	Willis	F	Dept. Manager, Lecturer
S1003	Ogadikwe	M	Dept. Manager, Lecturer
S1007	Yang	M	Dept. Manager, Lecturer
S1009	Bjord	F	Dept. Manager, Lecturer
S1023	Flatly	M	Lecturer
S1029	Robins	F	Lecturer
S1031	Wellington	M	Lecturer
S1033	Wilson	F	Lecturer

9 rows selected.

SQL>

SQL> -- 8. For each course with more than 10 students, list course title and the

SQL> -- number of students (under an appropriate header).

```
SQL> SELECT course_code, COUNT(matricNo) "Number of Students"
2      FROM NCOT.Student
3      WHERE course_code = 'FADES'
4      GROUP BY course_code;
```

COURS	Number of Students
-----	-----
FADES	11

SQL>

SQL> -- 9. List the number of female members of academic staff and the number of

SQL> -- male members of academic staff employed by CIS department.

```
SQL> SELECT COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female Staff",
2      COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"
3      FROM NCOT.Staff s, NCOT.StaffWorkInfo sw
4      WHERE s.staff_number = sw.staff_number AND sw.deptID = 'BSCIS';
```



Female Staff	Male Staff
-----	-----
2	1

SQL>

SQL> -- 10. For each member of academic staff who spends more than 6 hours teaching

SQL> -- any module list the member of academic staff last name, the module title

SQL> -- and the number of hours.

SQL> SELECT s.lName, m.module\_title, t.hours

2 FROM NCOT.Staff s, NCOT.Module m, NCOT.Teaching t

3 WHERE s.staff\_number = m.staff\_number AND m.staff\_number =  
t.staff\_number AND t.hours > 6;

LNAME	MODULE_TITLE	HOURS
-----	-----	-----
Yang	Accounting	10
Yang	Market and Environment	10
Sonrimor	Storyboarding	8
Sonrimor	Character Design	8
Fontaine	Taxation	8
Fontaine	Taxation	10
Fontaine	Auditing	8
Fontaine	Auditing	10
Wilson	Computer Science	8
Wilson	Sequence Analysis	8

10 rows selected.

SQL>

SQL> -- 11. For each department list the department name, and the number of female

SQL> -- members of academic staff, and the number of male members of academic

SQL> -- staff under appropriate headers.

SQL> SELECT d.dept\_name, COUNT(CASE WHEN s.sex = 'F' THEN 1 END) "Female  
Staff",

2 COUNT(CASE WHEN s.sex = 'M' THEN 1 END) "Male Staff"

3 FROM NCOT.Department d, NCOT.Staff s, NCOT.StaffWorkInfo sw

4 WHERE d.deptID = sw.deptID AND s.staff\_number = sw.staff\_number

5 GROUP BY d.dept\_name

6 ORDER BY d.dept\_name;

DEPT_NAME	Female Staff	Male Staff
-----	-----	-----
Accounting and Finance	1	2
Administration	0	1
Arts and Design	1	2
Communication	2	0
Computer Information Systems	2	1
Marketing	2	1
Nursing	1	2

7 rows selected.

SQL>

SQL> SET ECHO OFF

## B-II. View Results

View created.

DEPTI DEPT_NAME LOCATION	STAFF MGRSTARTD	DEPT_PHONE	FAX
BSCIS Computer Information Systems E Block	S1001 23-MAY-07	9095556670	9095556639
BSNRS Nursing E Block	S1003 07-NOV-15	9095553315	9095553310

View created.

MODULE_TITLE	MOD_START	MOD_END
Fundamental Design	07-SEP-20	16-NOV-20
Storyboarding	07-SEP-20	16-NOV-20
Character Design	07-SEP-20	16-NOV-20

View created.

NAME	ADDRESS	SALARY
Elaine Willis	139 Vivaldi Ave, Fontana, 93762	7000
Katherine Dierst	325 Michael Rd, San Bernardino, 95176	4500
Chrissie Bjord	119 Trevor Place, Fontana, 97653	7500

View created.

NAME	S	SALARY
Chrissie Bjord	F	7500
Kylie Jordan	F	5800
Trevor Flatly	M	7800
Margerie Wilson	F	9000

View created.

LNAME	POSITION	QUALIFICATIONS
-----	-----	-----
Willis	Dept. Manager, Lecturer	MS CIS
Wellington	Lecturer	MS Computer Science
Wilson	Lecturer	PhD Computer Science

View created.

MATRI	LNAME	S
-----	-----	--
00113	Aaron	M
00107	Bates	F
00111	Caspene	F
00121	Flarson	M
00109	Malone	M
00117	Rodriguez	M
00103	Rogers	F
00101	Ruiz	M
00119	Sampsonite	F
00115	Stone	F
00105	Yu	M

11 rows selected.

View created.

STAFF	LNAME	S	POSITION
-----	-----	--	-----
S0000	Norris	M	President
S1001	Willis	F	Dept. Manager, Lecturer
S1003	Ogadikwe	M	Dept. Manager, Lecturer
S1007	Yang	M	Dept. Manager, Lecturer
S1009	Bjord	F	Dept. Manager, Lecturer
S1023	Flatly	M	Lecturer
S1029	Robins	F	Lecturer
S1031	Wellington	M	Lecturer
S1033	Wilson	F	Lecturer

9 rows selected.

View created.

Female Staff	Male Staff
-----	-----
2	1

View created.

LNAME	MODULE_TITLE	HOURS
-----	-----	-----
Yang	Accounting	10
Yang	Market and Environment	10
Sonrimor	Storyboarding	8
Sonrimor	Character Design	8
Fontaine	Taxation	8
Fontaine	Taxation	10
Fontaine	Auditing	8
Fontaine	Auditing	10
Wilson	Computer Science	8
Wilson	Sequence Analysis	8

10 rows selected.

View created.

DEPT_NAME	Female Staff	Male Staff
-----	-----	-----
Accounting and Finance	1	2
Administration	0	1
Arts and Design	1	2
Communication	2	0
Computer Information Systems	2	1
Marketing	2	1
Nursing	1	2

7 rows selected.

**Common Comments on Project – Implementation Phase:**  
(to be done by all team members)

A. Difficulties faced during this implementation phase and how they were resolved:

Cesar: I do not fully understand a lot of how the key placement on the sql files I also had trouble understanding how to start but realised that it was much like homework.

Nate: The biggest difficulty of this phase was the script errors, by far, and trying to find out where they were coming from.

B. Likes and dislikes about this part of the project:

Cesar: To be honest phase 1 and 2 were not hard at all compared to this phase so that was a dislike. I did like phase 1 and 2, easier to understand.

Nate: I disliked feeling lost with the errors but absolutely loved fixing them in the end.

C. What was the most challenging aspect of this part of the project?

Cesar: Understanding how to implement the SQL.

Nate: The biggest challenge was finding the time to put towards this, the largest part of the project, in the midst of finals and other projects due as well.

D. Suggestions on how to improve this part of the project:

Cesar: Maybe include less programming in this part and introduce it more in earlier phases.

Nate: I believe this phase would benefit most from breaking it into smaller pieces/assignments since it has the biggest learning curve.

## **Personal Comments on Project – Implementation Phase:**

### **Cesar Leon:**

1. *What are parts you contributed and comments about your parts?*

My parts consisted on checking the code with the SQL developer and debugging the code from all the files. Making sure the tables and the comments were created.

2. *Comments about your contribution to your partner's parts, if any.*

My partner Nate understand SQL very well. He is very helpful and puts in a lot of time to get the maximum results. I believe I learned a lot and have more to learn, very good partner.

### **Nate Cottrell:**

1. *What are parts you contributed and comments about your parts?*

- I made the report template, authored the first draft of the scripts, and implemented the database. It was actually a very nice feeling to see everything coming together and to see the culmination of all of our hard work.

2. *Comments about your contribution to your partner's parts, if any.*

- It was nice to know that Cesar would be double checking all of our work and getting that extra pair of eyes for anything I may have missed. It felt good to tag-team the last phase and get it done.