

Database Management System - Project  
Phase 2

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April 13, 2016

```
-- Generated by Oracle SQL Developer Data Modeler 4.1.3.901
-- at:          2016-03-29 10:38:20 EDT
-- site:        Oracle Database 11g
-- type:        Oracle Database 11g
```

```
CREATE TABLE ACADEMIC
```

```
(
    Unit_ID      INTEGER NOT NULL ,
    College_ID   INTEGER NOT NULL
);
```

```
ALTER TABLE ACADEMIC ADD CONSTRAINT ACADEMIC_PK PRIMARY KEY ( Unit_ID,
College_ID );
```

```
CREATE TABLE APPOINTMENT
```

```
(
    Appointment_ID INTEGER NOT NULL ,
    Location        VARCHAR2 (20 CHAR) ,
    "Date"          DATE ,
    Status          VARCHAR2 (20) ,
    StartTme        DATE ,
    EndTime         DATE ,
    Student_ID      INTEGER NOT NULL ,
    Tutor_ID        INTEGER NOT NULL
);
```

```
ALTER TABLE APPOINTMENT ADD CONSTRAINT APPOINTMENT_PK PRIMARY KEY
( Appointment_ID );
```

```
CREATE TABLE ASSIGNED
```

```
(
    UnitCollege_ID INTEGER NOT NULL ,
    TutSession_ID  INTEGER NOT NULL ,
    Tutor_ID       INTEGER NOT NULL ,
    Status         VARCHAR2 (20 CHAR)
);
```

```
ALTER TABLE ASSIGNED ADD CONSTRAINT ASSIGNED_PK PRIMARY KEY
( UnitCollege_ID, TutSession_ID, Tutor_ID );
```

```
CREATE TABLE CAMPUS
```

```
(
    Campus_ID      INTEGER NOT NULL ,
    Name           VARCHAR2 (40 CHAR) ,
    URL            VARCHAR2 (20 CHAR) ,
    State          CHAR (2 CHAR) ,
    Country        VARCHAR2 (20 CHAR) ,
```

```

        City          VARCHAR2 (20 CHAR) ,
        Address        VARCHAR2 (20 CHAR) ,
        University_ID  INTEGER NOT NULL
    ) ;
ALTER TABLE CAMPUS ADD CONSTRAINT CAMPUS_PK PRIMARY KEY
( Campus_ID ) ;

```

```

CREATE TABLE COLLEGE
(
    College_ID INTEGER NOT NULL ,
    Name        VARCHAR2 (40 CHAR) ,
    URL         VARCHAR2 (20) ,
    Phone       CHAR (10 CHAR) ,
    Email       VARCHAR2 (20) ,
    Campus_ID   INTEGER NOT NULL
) ;
ALTER TABLE COLLEGE ADD CONSTRAINT COLLEGE_PK PRIMARY KEY
( College_ID ) ;

```

```

CREATE TABLE COURSE
(
    Course_ID      INTEGER NOT NULL ,
    Title          VARCHAR2 (40 CHAR) ,
    Credit         SMALLINT ,
    UnitCollege_ID INTEGER NOT NULL
) ;
ALTER TABLE COURSE ADD CONSTRAINT COURSE_PK PRIMARY KEY
( Course_ID ) ;

```

```

CREATE TABLE COURSEAPP
(
    Appointment_ID INTEGER NOT NULL ,
    Course_ID       INTEGER NOT NULL
) ;
ALTER TABLE COURSEAPP ADD CONSTRAINT COURSEAPP_PK PRIMARY KEY
( Appointment_ID, Course_ID ) ;

```

```

CREATE TABLE COURSE_ID
(
    Course_ID INTEGER NOT NULL ,
    "Number"  INTEGER ,
    Code      CHAR (5 CHAR)
) ;
ALTER TABLE COURSE_ID ADD CONSTRAINT COURSE_ID_PK PRIMARY KEY
( Course_ID ) ;

```

```

CREATE TABLE FACULTY
( User_ID INTEGER NOT NULL , Rank VARCHAR2 (15 CHAR)
) ;
ALTER TABLE FACULTY ADD CONSTRAINT FACULTY_PK PRIMARY KEY
( User_ID ) ;

```

```

CREATE TABLE HIREBY
(
    Tutor_ID          INTEGER NOT NULL ,
    UnitCollege_ID    INTEGER NOT NULL
) ;
ALTER TABLE HIREBY ADD CONSTRAINT HIREBY_PK PRIMARY KEY ( Tutor_ID,
UnitCollege_ID ) ;

```

```

CREATE TABLE NONACEDEMIC
(
    Unit_ID           INTEGER NOT NULL ,
    Job_Description    VARCHAR2 (30 CHAR)
) ;
ALTER TABLE NONACEDEMIC ADD CONSTRAINT NONACEDEMIC_PK PRIMARY KEY
( Unit_ID ) ;

```

```

CREATE TABLE ONCALL
(
    Oncall_ID         INTEGER NOT NULL ,
    Location           VARCHAR2 (20 CHAR) ,
    "Date"            DATE ,
    Task              VARCHAR2 (20 CHAR) ,
    Status            VARCHAR2 (20 CHAR) ,
    StartTime         DATE ,
    EndTime           DATE ,
    Tutor_ID          INTEGER NOT NULL ,
    Course_ID         INTEGER NOT NULL ,
    Faculty_ID        INTEGER NOT NULL
) ;
ALTER TABLE ONCALL ADD CONSTRAINT ONCALL_PK PRIMARY KEY
( Oncall_ID ) ;

```

```

CREATE TABLE PHONE
(
    User_ID           INTEGER NOT NULL ,
    Phone             CHAR (10 CHAR) NOT NULL
) ;
ALTER TABLE PHONE ADD CONSTRAINT PHONE_PK PRIMARY KEY ( Phone,
User_ID ) ;

```

```

CREATE TABLE RESPONSIBLE
(
    Tutor_ID    INTEGER NOT NULL ,
    Course_ID   INTEGER NOT NULL
) ;
ALTER TABLE RESPONSIBLE ADD CONSTRAINT RESPONSIBLE_PK PRIMARY KEY
( Tutor_ID, Course_ID ) ;

```

```

CREATE TABLE STAFF
(
    User_ID    INTEGER NOT NULL ,
    Position   VARCHAR2 (20 CHAR)
) ;
ALTER TABLE STAFF ADD CONSTRAINT STAFF_PK PRIMARY KEY ( User_ID ) ;

```

```

CREATE TABLE STUDENT
( User_ID INTEGER NOT NULL , Type CHAR (1)
) ;
ALTER TABLE STUDENT ADD CONSTRAINT STUDENT_PK PRIMARY KEY
( User_ID ) ;

```

```

CREATE TABLE SUPERVISOR
(
    Faculty_ID    INTEGER NOT NULL ,
    OfficeHours   VARCHAR2 (60 CHAR) ,
    Email_Spec    VARCHAR2 (20 CHAR)
) ;
ALTER TABLE SUPERVISOR ADD CONSTRAINT SUPERVISOR_PK PRIMARY KEY
( Faculty_ID ) ;

```

```

CREATE TABLE TUTOR
(
    User_ID          INTEGER NOT NULL ,
    Supervisor_ID    INTEGER NOT NULL ,
    PayRate          NUMBER (5,2)
) ;
ALTER TABLE TUTOR ADD CONSTRAINT TUTOR_PK PRIMARY KEY ( User_ID ) ;

```

```

CREATE TABLE TUTSESS
(
    TutSession_ID    INTEGER NOT NULL ,
    Location          VARCHAR2 (20 CHAR) ,
    "Date"            DATE ,

```

```

        StartTime      DATE ,
        EndTime        DATE ,
        UnitCollege_ID INTEGER NOT NULL
    ) ;
ALTER TABLE TUTSESS ADD CONSTRAINT TUTSESS_PK PRIMARY KEY
( TutSession_ID ) ;

```

```

CREATE TABLE TUTSESSCOURSE
(
    Course_ID          INTEGER NOT NULL ,
    UnitCollege_ID     INTEGER NOT NULL ,
    TutSession_ID      INTEGER NOT NULL
) ;
ALTER TABLE TUTSESSCOURSE ADD CONSTRAINT TUTSESSCOURSE_PK PRIMARY KEY
( Course_ID, UnitCollege_ID, TutSession_ID ) ;

```

```

CREATE TABLE UNIT
(
    Unit_ID      INTEGER NOT NULL ,
    Campus_ID    INTEGER NOT NULL ,
    Name         VARCHAR2 (20 CHAR) ,
    Phone        CHAR (10 CHAR) ,
    Type         CHAR (1 CHAR)
) ;
ALTER TABLE UNIT ADD CONSTRAINT UNIT_PK PRIMARY KEY ( Unit_ID ) ;

```

```

CREATE TABLE UNITCOLLEGE
(
    Unit_ID          INTEGER NOT NULL ,
    College_ID       INTEGER NOT NULL ,
    UnitCollege_ID   INTEGER NOT NULL ,
    Type             CHAR (1 CHAR)
) ;
ALTER TABLE UNITCOLLEGE ADD CONSTRAINT UNITCOLLEGE_PK PRIMARY KEY
( UnitCollege_ID ) ;

```

```

CREATE TABLE UNIVERSITY
(
    University_ID    INTEGER NOT NULL ,
    Name             VARCHAR2 (40 CHAR) ,
    URL              VARCHAR2 (20 CHAR) ,
    Country          VARCHAR2 (20 CHAR) ,
    State            CHAR (2 CHAR) ,
    City             VARCHAR2 (20 CHAR) ,
    Address          VARCHAR2 (20 CHAR)
) ;

```

```
ALTER TABLE UNIVERSITY ADD CONSTRAINT UNIVERSITY_PK PRIMARY KEY
( University_ID ) ;
```

```
CREATE TABLE "USER"
```

```
(
    User_ID INTEGER NOT NULL ,
    Email    VARCHAR2 (20 CHAR) ,
    Country  VARCHAR2 (20 CHAR) ,
    State    CHAR (2 CHAR) ,
    City     VARCHAR2 (20 CHAR) ,
    Address  VARCHAR2 (20 CHAR) ,
    Fname    VARCHAR2 (15 CHAR) ,
    Lname    VARCHAR2 (15 CHAR) ,
    Minit    VARCHAR2 (10 CHAR)
) ;
```

```
ALTER TABLE "USER" ADD CONSTRAINT USER_PK PRIMARY KEY ( User_ID ) ;
```

```
ALTER TABLE ACADEMIC ADD CONSTRAINT ACADEMIC_COLLEGE_FK FOREIGN KEY
( College_ID ) REFERENCES COLLEGE ( College_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ACADEMIC ADD CONSTRAINT ACADEMIC_UNIT_FK FOREIGN KEY
( Unit_ID ) REFERENCES UNIT ( Unit_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE APPOINTMENT ADD CONSTRAINT APPOINTMENT_STUDENT_FK FOREIGN
KEY ( Student_ID ) REFERENCES STUDENT ( User_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE APPOINTMENT ADD CONSTRAINT APPOINTMENT_TUTOR_FK FOREIGN
KEY ( Tutor_ID ) REFERENCES TUTOR ( User_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ASSIGNED ADD CONSTRAINT ASSIGNED_TUTOR_FK FOREIGN KEY
( Tutor_ID ) REFERENCES TUTOR ( User_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ASSIGNED ADD CONSTRAINT ASSIGNED_TUTSESS_FK FOREIGN KEY
( TutSession_ID ) REFERENCES TUTSESS ( TutSession_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ASSIGNED ADD CONSTRAINT ASSIGNED_UNITCOLLEGE_FK FOREIGN
KEY ( UnitCollege_ID ) REFERENCES UNITCOLLEGE ( UnitCollege_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE CAMPUS ADD CONSTRAINT CAMPUS_UNIVERSITY_FK FOREIGN KEY
( University_ID ) REFERENCES UNIVERSITY ( University_ID ) ON
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE COLLEGE ADD CONSTRAINT COLLEGE_CAMPUS_FK FOREIGN KEY  
( Campus_ID ) REFERENCES CAMPUS ( Campus_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE COURSEAPP ADD CONSTRAINT COURSEAPP_APPOINTMENT_FK FOREIGN  
KEY ( Appointment_ID ) REFERENCES APPOINTMENT ( Appointment_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE COURSEAPP ADD CONSTRAINT COURSEAPP_COURSE_FK FOREIGN KEY  
( Course_ID ) REFERENCES COURSE ( Course_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE COURSE_ID ADD CONSTRAINT COURSE_ID_COURSE_FK FOREIGN KEY  
( Course_ID ) REFERENCES COURSE ( Course_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE COURSE ADD CONSTRAINT COURSE_UNITCOLLEGE_FK FOREIGN KEY  
( UnitCollege_ID ) REFERENCES UNITCOLLEGE ( UnitCollege_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE FACULTY ADD CONSTRAINT FACULTY_USER_FK FOREIGN KEY  
( User_ID ) REFERENCES "USER" ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE HIREBY ADD CONSTRAINT HIREBY_TUTOR_FK FOREIGN KEY  
( Tutor_ID ) REFERENCES TUTOR ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE HIREBY ADD CONSTRAINT HIREBY_UNITCOLLEGE_FK FOREIGN KEY  
( UnitCollege_ID ) REFERENCES UNITCOLLEGE ( UnitCollege_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE NONACADEMIC ADD CONSTRAINT NONACADEMIC_UNIT_FK FOREIGN KEY  
( Unit_ID ) REFERENCES UNIT ( Unit_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ONCALL ADD CONSTRAINT ONCALL_COURSE_FK FOREIGN KEY  
( Course_ID ) REFERENCES COURSE ( Course_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ONCALL ADD CONSTRAINT ONCALL_FACULTY_FK FOREIGN KEY  
( Faculty_ID ) REFERENCES FACULTY ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE ONCALL ADD CONSTRAINT ONCALL_TUTOR_FK FOREIGN KEY  
( Tutor_ID ) REFERENCES TUTOR ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE PHONE ADD CONSTRAINT PHONE_USER_FK FOREIGN KEY ( User_ID )
```



```
REFERENCES "USER" ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE RESPONSIBLE ADD CONSTRAINT RESPONSIBLE_COURSE_FK FOREIGN  
KEY ( Course_ID ) REFERENCES COURSE ( Course_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE RESPONSIBLE ADD CONSTRAINT RESPONSIBLE_TUTOR_FK FOREIGN  
KEY ( Tutor_ID ) REFERENCES TUTOR ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE STAFF ADD CONSTRAINT STAFF_USER_FK FOREIGN KEY ( User_ID )  
REFERENCES "USER" ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE STUDENT ADD CONSTRAINT STUDENT_USER_FK FOREIGN KEY  
( User_ID ) REFERENCES "USER" ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE SUPERVISOR ADD CONSTRAINT SUPERVISOR_FACULTY_FK FOREIGN  
KEY ( Faculty_ID ) REFERENCES FACULTY ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTOR ADD CONSTRAINT TUTOR_SUPERVISOR_FK FOREIGN KEY  
( Supervisor_ID ) REFERENCES SUPERVISOR ( Faculty_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTOR ADD CONSTRAINT TUTOR_USER_FK FOREIGN KEY ( User_ID )  
REFERENCES "USER" ( User_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTSESSCOURSE ADD CONSTRAINT TUTSESSCOURSE_COURSE_FK  
FOREIGN KEY ( Course_ID ) REFERENCES COURSE ( Course_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTSESSCOURSE ADD CONSTRAINT TUTSESSCOURSE_TUTSESS_FK  
FOREIGN KEY ( TutSession_ID ) REFERENCES TUTSESS ( TutSession_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTSESSCOURSE ADD CONSTRAINT TUTSESSCOURSE_UNITCOLLEGE_FK  
FOREIGN KEY ( UnitCollege_ID ) REFERENCES UNITCOLLEGE  
( UnitCollege_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE TUTSESS ADD CONSTRAINT TUTSESS_UNITCOLLEGE_FK FOREIGN KEY  
( UnitCollege_ID ) REFERENCES UNITCOLLEGE ( UnitCollege_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;
```

```
ALTER TABLE UNITCOLLEGE ADD CONSTRAINT UNITCOLLEGE_COLLEGE_FK FOREIGN  
KEY ( College_ID ) REFERENCES COLLEGE ( College_ID ) ON
```

DELETE CASCADE NOT DEFERRABLE ;

ALTER TABLE UNITCOLLEGE ADD CONSTRAINT UNITCOLLEGE\_UNIT\_FK FOREIGN KEY  
( Unit\_ID ) REFERENCES UNIT ( Unit\_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;

ALTER TABLE UNIT ADD CONSTRAINT UNIT\_CAMPUS\_FK FOREIGN KEY  
( Campus\_ID ) REFERENCES CAMPUS ( Campus\_ID ) ON  
DELETE CASCADE NOT DEFERRABLE ;

-- Oracle SQL Developer Data Modeler Summary Report:

--	
-- CREATE TABLE	24
-- CREATE INDEX	0
-- ALTER TABLE	59
-- CREATE VIEW	0
-- ALTER VIEW	0
-- CREATE PACKAGE	0
-- CREATE PACKAGE BODY	0
-- CREATE PROCEDURE	0
-- CREATE FUNCTION	0
-- CREATE TRIGGER	0
-- ALTER TRIGGER	0
-- CREATE COLLECTION TYPE	0
-- CREATE STRUCTURED TYPE	0
-- CREATE STRUCTURED TYPE BODY	0
-- CREATE CLUSTER	0
-- CREATE CONTEXT	0
-- CREATE DATABASE	0
-- CREATE DIMENSION	0
-- CREATE DIRECTORY	0
-- CREATE DISK GROUP	0
-- CREATE ROLE	0
-- CREATE ROLLBACK SEGMENT	0
-- CREATE SEQUENCE	0
-- CREATE MATERIALIZED VIEW	0
-- CREATE SYNONYM	0
-- CREATE TABLESPACE	0
-- CREATE USER	0
--	
-- DROP TABLESPACE	0
-- DROP DATABASE	0
--	
-- REDACTION POLICY	0
--	
-- ORDS DROP SCHEMA	0
-- ORDS ENABLE SCHEMA	0
-- ORDS ENABLE OBJECT	0
--	

-- ERRORS	0
-- WARNINGS	0

