University Database – Section 2

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| **OrganisationUnit**(unitCode, unitName, description, contactNo)  **Primary Key** unitCode  **Alternative Key** unitName |
| **SubOrgisationUnit**(oUnit, subOUnit)  **Primary Key** oUnit, subOUnit  **Check** oUnit != subOUnit  **Foreign Key** oUnit **References** OrganisationUnit(unitCode) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** subOUnit **References** OrganisationUnit(unitCode) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **AssignmentType(typeID, name)**  Primary Key typeID  Alternative Key name |
| **MajorMinor**(mCode, name, description, totalCredits, conditions, isMajor)  **Primary Key** mCode  **Alternative Key** name |
| **Course**(courseID, name, numberCredits, description)  **Primary Key** courseID  **Alternative Key** name |
| **AssumedKnowledge**(course, assumedCourse, isPrerequisite)  **Primary Key** course  **Check** (course != assumedCourse)  **Foreign Key** course **References** Course(courseID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** assumedCourse **References** Course(courseID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **Program**(progCode, name, oUnit, totalCredits, level, certAchieved)  **Primary Key** progCode  **Alternative Key** name  **Foreign Key** oUnit **References** OrganisationUnit(unitCode) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **ProgramCourse**(program, course, startDate, endDate, isCore)  **Primary Key** program, course, startDate  **Check** (endDate > startDate)  **Foreign Key** program **References** Program(progCode) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** course **References** Course(courseID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **Person**(personID, name, isStaff, isStudent, streetNum, street, city, postcode, contactNo, staffContact)  **Primary Key** personID  **CHECK**(isStaff = 1 OR isStudent = 1)  **CHECK**((isStaff = 0 AND staffContact IS NULL)  **Alternative Key** personID, isStaff  **Alternative Key** personID, isStudent |
| **AcademicStaff**(staff, isStaff)  **Primary Key** staff  **Check** isStaff = 1  **Foreign Key** staff, isStaff **References** Person(personID, isStaff) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **OrganisationStaff**(oUnit, staff, isStaff, startDate, endDate, role)  **Primary Key** oUnit, staff, startDate  **Check** isStaff = 1  **Check** endDate > startDate  **Foreign Key** oUnit **References** OrganisationUnit(unitCode) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** staff, isStaff **References** Person(personID, isStaff) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **ProgramStaff**(program, convenor, startDate, endDate)  **Primary Key** program, concenor, startDate  **Check** endDate > startDate  **Foreign Key** program **References** Program(progCode)  **Foreign Key** convenor **References** AcademicStaff(staff) |
| **ProgramMajorMinor**(program, majorMinor)  **Primary Key** program, majorMinor  **Foreign Key** program **References** Program(progCode)  **Foreign Key** majorMinor **References** MajorMinor(mCode) |
| **AssignmentMajor**(assignID, majorMinor, course, type, startDate, endDate)  **Primary Key** assignID  **Foreign Key** majorMinor **References** MajorMinor(mCode)  **Foreign Key** course **References** Course(courseID)  **Foreign Key** type **References** AssignmentType(typeID) |
| **Campus**(campID, name)  **Primary Key** campID |
| **PhysicalCampus**(campID, city, country)  **Primary Key** campID  **Foreign Key** campID **References** Campus(campID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **FacilityType**(typeID, name)  **Primary Key** typeID  **Alternative Key** name |
| **Facility**(facID, campus, roomNumber, buildingName, capacity, type)  **Primary Key** facID  **Alternative Key** campus, rooNumber, buildingName  **Foreign Key** campus **References** PhysicalCampus(campID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** type **References** FacilityType(typeID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **Period**(periodID, name, startDate, endDate, year)  **Primary Key** periodID  **Check** name = Semester or name = Trimester |
| **CourseOffering**(offeringID, course, coordinator, isStaff, campus, period)  **Primary Key** offeringID  **Foreign Key course References** Course(courseID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** coordinator, isStaff **References** Person(personID, isStaff) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** campus **References** Campus(campID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** period **References** Period(periodID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **StudentCourseOffering**(student, isStudent, offering, dateRegistered, finalMark, finalGrade, isCompleted)  **Primary Key** student, offering  **Foreign Key** student, isStudent **References** Person(personID, isStudent)  **Foreign Key** offering **References** CourseOffering(offeringID) |
| **PhysicalOffering**(offeringID)  **Primary Key** offeringID  **Foreign Key** offeringID **References** CourseOffering(offeringID) |
| **ReasonType**(typeID, name)  **Primary Key** typeID  **Alternative Key** name |

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| **TimetableSlot**(slotID, facility, offering, staff, isStaff, date, startTime, endTime, reason)  **Primary Key** slotID  **Alternative Key** slot, offering  **Foreign Key** facility **References** Facility(facID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** offering **References** PhysicalOffering(offeringID) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** reason **References** ReasonType(typeID) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **StudentTimetableSlot**(student, offering, slot)  **Primary Key** student, slot, offering  **Foreign Key** student, offering **References** StudentCourseOffering(student, offering) ***ON UPDATE NO ACTION ON DELETE NO ACTION***  **Foreign Key** slot, offering **References** TimetableSlot(slotID, offering) ***ON UPDATE NO ACTION ON DELETE NO ACTION*** |
| **StudentEnrolment**(enrolID, student, isStudent, period, dateEnrolled, dateCompletetion, status)  **Primary Key** enrolID  **Foreign Key** student, isStudent **References** Person(personID, isStudent)  **Foreign Key** period **References** Period(periodID) |
| **ProgramEnrolment**(enrolID, program)  **Primary Key** enrolID, program  **Foreign Key** enrolID **References** StudentEnrolment(enrolID)  **Foreign Key** program **References** Program(progCode) |

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| ()  **Primary Key**  **Alternative Key**  **Foreign Key References**  ***ON UPDATE CASCADE ON DELETE SET NULL***  ***ON UPDATE CASCASE ON DELETE NO ACTION***  ***ON UPDATE CASCADE ON DELETE CASCADE*** |