University Database – Section 2

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| **Student**(personID, name, streetNum, street, city, postcode, contactNo, studentID)  **Primary Key** personID, studentID  **Alternative Key** studentID |
| **Staff**(personID, name, streetNum, street, city, postcode, contactNo, staffNum, staffContactNo)  **Primary Key** personID, staffNum  **Alternative Key** staffNum |
| AcademicStaff()  **Primary Key**  **Alternative Key**  **Foreign Key References** |
| ConvenorFor(progCode, staffNum, startDate, endDate)  **Primary Key** progCode, staffNum, startDate  **Foreign Key** progCode **References** Program(progCode) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** staffNum **References** Staff(staffNum) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **OrganisationUnit**(unitCode, unitName, description, contactNo)  **Primary Key** unitCode  **Alternative Key** unitName |
| **SubOrgisationUnit**(unitCode, unitName)  **Foreign Key** unitCode **References** OrganisationUnit(unitCode) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** unitName **References** OrganisationUnit(unitName) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **WorksAt**(staffNum, unitcode, startDate, endDate, role)  **Primary Key** staffNum, unitCode, startDate  **Foreign Key** staffNum **References** Staff(staffNum) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** unitCode **References** OrganisationUnit(unitCode) ***ON UPDATE CASCASE ON DELETE NO ACTION*** |
| **RegistersFor**(studentID, courseID, date, finalMark, finalGrade, isCompleted)  **Primary Key** studentID, courseID, date  **Foreign Key** studentID **References** Student(studentID) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** courseID **References** courseOffering(courseID) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **CourseOffering**(periodID, campID, courseID, staffNum, slotID)  **Primary Key** periodID, campID, courseID, staffNum, slotID  **Foreign Key** periodID **References** Period(periodID) ***ON UPDATE CASCADE ON DELETE SET NULL***  **Foreign Key** campID **References** Campus(campID) ***ON UPDATE CASCADE ON DELETE SET NULL***  **Foreign Key** courseID **References** Course(courseID) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key s**taffNum **References** Staff(staffNum) ***ON UPDATE CASCADE ON DELETE SET NULL***  **Foreign Key** slotID **References** TimetableSlot(slotID) ***ON UPDATE CASCADE ON DELETE SET NULL*** |
| **Period**(periodID, type, startDate, endDate, year)  **Primary Key** periodID |
| **Campus**(campID, name)  **Primary Key** campID |
| **PhysicalCampus**(campID, facID city, country)  **Primary Key** campID, facID  **Foreign Key** campID **References** Campus(campID) ***ON UPDATE CASCADE ON DELETE SET NULL***  **Foreign Key** facID **References** Facility(facID) ***ON UPDATE CASCASE ON DELETE NO ACTION*** |
| **Facility**(facID, roomNum, buildingName, capacity, facType)  **Primary Key** facID |

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| **TimeTableSlot**(slotID, date, startTime, endtime, reasonID, facID)  **Primary Key** slotID  **Foreign Key** reasonID **References** Reason(reasonID) ***ON UPDATE CASCADE ON DELETE SET NULL***  **Foreign Key** facID **References** Facility(facID) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **Timetable**(timetableID, slotID)  **Primary Key** timetableID  **Foreign Key** slotID **References** TimetableSlot(slotID) ***ON UPDATE CASCASE ON DELETE NO ACTION*** |
| **Reason**(reasonID, name)  **Primary Key** reasonID |
| **Program**(progCode, name, totalCredits,level, certAchieved)  **Primary Key** progCode  **Alternative Key** name |
| **Course**(courseID, name, creditsNum, description)  **Primary Key** courseID  **Alternative Key** name |
| **AssignedTo**(courseID, progCode, startDate, endDate, isCore)  **Primary Key** courseID, progCode  **Foreign Key** courseID **References** Course(courseID) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** progCode **References** Program(progCode) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **AssumedKnowledge**(courseID, courseID, isPrerequisite)  **Primary Key** courseID  **Foreign Key** courseID **References** Course(courseID) ***ON UPDATE CASCADE ON DELETE CASCADE***  **Foreign Key** courseID **References** Course(courseID) ***ON UPDATE CASCADE ON DELETE CASCADE*** |
| **MajorMinor**(mCode, name, description, totalCredits, conditions, typeID)  **Primary Key** mCode  **Alternative Key** name  **Foreign Key** typeID **References** MajorMinorType(typeID) ***ON UPDATE CASCADE ON DELETE NO ACTION*** |
| **MajorMinorType**(typeID, name)  **Primary Key** typeID |
| **AssignmentMajor**(assignID, mCode, startDate, endDate, typeID)  **Primary Key** assignID  **Foreign Key** typeID **References** AssignmentType(typeID) ***ON UPDATE CASCASE ON DELETE NO ACTION*** |
| **AssignmentType**(typeID, name)  **Primary Key** typeID |

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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*** |

Courseoffering / Physical Offering when mapping makes sense to be a Mandatory, nodisjoint relationship when mapped, but you have it as optional. Thoughts?

Course Offering \*Holds>\* TimetableSlot

Could staff have an isAcademic attribute to not require the need for AcademicStaff subclass? And just keep the Convenors For Relationship?