NORMALIZATION

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| --- | --- | --- | --- | --- | --- |
| DEPARTMENT | DepartmentID | d1 | SCHOOL | SchoolID | s1 |
| departmentName | d2 | schoolname | s2 |
| SchoolID | s1 |
| INSTRUCTOR | InstructorID | i1 | PROGRAM | ProgramID | p1 |
| fname | i2 | programname | p2 |
| lname | i3 | DeppartmentID | d1 |
| qualification | i4 | COURSE | CourseID | c1 |
| address | i5 | coursetitle | c2 |
| dateofbarth | i6 | coursetype | c3 |
| gender | i7 | ProgramID | p1 |
| phoneno | i8 | REGISTATION | RegistrationID | r1 |
| email | i9 | year | r2 |
| DepartmentID | d1 | semester | r3 |
| CO | CoID | o1 | registrationdate | r4 |
| coursename | o2 | StudentID | t1 |
| PloID | l1 | ProgramID | p1 |
| STUDENT | StudentID | t1 | DEPARTMENTHEAD | experience | x1 |
| fname | t2 | managementskills | x2 |
| lname | t3 | DEAN | serviceyear | y1 |
| parentsname | t4 | PLO | PloID | l1 |
| address | t5 | details | l2 |
| dateofbirth | t6 | ProgramID | p1 |
| gender | t7 | ASSESMENT | AssesmentNo | a1 |
| phoneno | t8 | assesmenttype | a2 |
| noonsemester | t9 | Sectionid | e1 |
| email | t10 | Studentid | t1 |
| religion | t11 | CoID | o1 |
| nationality | t12 | SECTION | SectionID | e1 |
| signature | t13 | sectionno | e2 |
| ProgramID | p1 | roomno | e3 |
| DepartmentID | d1 | CourseID | c1 |

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| --- | --- |
| d1-> | d2, s2 |
| i1-> | i2, i3, i4, i5, i6, i7, i8, i9, d1 |
| o1-> | o2, i1 |
| t1 -> | t2, t3, t4, t5, t6, t7, t8, t9, t10, t11, t12, t13, p1, d1 |
| s1-> | s2 |
| p1-> | p2, d1 |
| c1-> | c2, c3, p1 |
| r1-> | r2, r3, r4, t1, p1 |
| x1-> | x2 |
| y1-> |  |
| l1-> | l2, p1 |
| a1-> | a2, e1, t1, o1 |
| e1-> | e2, e3, c1 |

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| --- | --- |
| DepartmentID-> | departmentname, SchoolID |
| InstructorID-> | fname, lname, qualification, address, dateofbirth, gender, phoneno, email, DepartmentID |
| CoID-> | coursename, PloID |
| StudentID-> | fname, lname, parentsname, address, dateofbirth, gender, phoneno, noofsemester, email, religion, nationality, signature, ProgramID, DepartmentID |
| SchoolID-> | schoolName |
| ProgramID-> | programname, DepartmentID |
| CourseID-> | coursetitle, coursetype, ProgramID |
| RegistrationID-> | year, semester, registrationdate, StudentID, ProgramID |
| experience-> | managementskils |
| DeanID-> | serviceyear |
| PloID-> | details, ProgramID |
| AssesementNO-> | assesmenttype, Sectionid, Studentid, CoID |
| SectionID-> | sectionno, roomno, CourseID |