**Data Dictionary (Relational)**

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| **Schema Construct** | **Data type** | **Constraint** |
| **STUDENT** |  |  |
| SID | Varchar2(20) | Primary key |
| Gender | char(1) | M or F |
| FirstName | Varchar2(100) | Should not be NULL |
| MiddleName | Varchar2(100) |  |
| LastName | Varchar2(100) | Should not be NULL |
| EmailID | Varchar2(100) | Should not be NULL |
| DOB | Date | MM-DD-YYYY |
| Age | Integer(2) | Calculated by DOB |
| ZipCode | char(5) |  |
| State | Char(2) |  |
| City | Varchar2(20) |  |
| ApartmentNumber | Varchar2(20) |  |
| SSN | Varchar2(11) | Unique |
| IsSOTY | Varchar2(20) |  |
| FD: SID → SID, Gender, FirstName, MiddleName, LastName, EmailID, DOB, Age, ZipCode, State, City, ApartmentNumber, SSN, IsSOTY  FD: SSN → SID, Gender, FirstName, MiddleName, LastName, EmailID, DOB, Age, ZipCode, State, City, ApartmentNumber, SSN, IsSOTY | | |

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| **STUDENT\_PHONE** |  |  |
| SID | Varchar2(20) | Primary key, Foreign key references STUDENT |
| PhoneNumber | Varchar2(20) | Primary key |
| FD: SID, PhoneNumber → SID, PhoneNumber | | |

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| **EMPLOYMENT\_OFFER** |  |  |
| OfferID | Varchar2(20) | Primary key |
| DateOfJoining | Date | MM-DD-YYYY |
| EmploymentType | Char(1) | I: intern, F: full time, P: part time, C: co-op, CHECK (EmploymentType IN (I, F, P, C)) |
| Status | Char(1) | A: accept, D: denied, H: hold, CHECK( Status IN (A, D, H)) |
| SID | Varchar2(20) | Foreign key references STUDENT |
| ComID | Varchar2(20) | Foreign key references COMPANY |
| FD: OfferID → OfferID, DateOfJoining, EmploymentType, Status, S.I.D, ComID | | |

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| **COMPANY** |  |  |
| ComID | Varchar2(20) | Primary key |
| Name | Varchar2(100) | Unique |
| ZipCode | Char(5) | Should not be NULL |
| State | Char(2) |  |
| City | Varchar2(20) |  |
| FD: ComID → ComID, Name, ZipCode, State, City  FD: Name → ComID, Name, ZipCode, State, City | | |

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| **COMPANY\_PHONE** |  |  |
| ComID | Varchar2(20) | Primary key, Foreign key |
| PhoneNumber | Varchar2(20) | Primary key |
| FD: ComID, PhoneNumber → ComID, PhoneNumber | | |

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| **PROGRAM** |  |  |
| PID | Varchar2(20) | Primary |
| Type | Varchar2(20) | Unique, CHECK (Type IN (‘Full-Time’, ‘Evening’, ‘Online’, ‘Executive’)) |
| OnCampus | Char(1) | Y: yes, N: no, CHECK (OnCampus IN (Y, N)) |
| FD: PID → PID, Type, OnCampus  FD: Type → PID, Type, OnCampus | | |

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| **OFFICE** |  |  |
| CommitteeID | Varchar2(20) | Primary key |
| CommitteeName | Varchar2(100) | Unique |
| FD: CommitteeID → CommitteeID, CommitteeName  FD: CommitteeName → CommitteeID, CommitteeName | | |

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| **SCHOLARSHIP** |  |  |
| ScholarshipID | VARCHAR2(20) | Primary Key, NOT NULL |
| Description | VARCHAR(300) |  |

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| **CASH\_SCHOLARSHIP** |  |  |
| ScholarshipID | VARCHAR2(20) | Foreign Key, NOT NULL |
| CashAmount | NUMBER(9,2) | CHECK (CashAmount>0) |

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| **GRADUATE\_ASSISTANTSHIP** |  |  |
| ScholarshipID | VARCHAR2(20) | Foreign Key, NOT NULL |
| DepartmentName | VARCHAR2(100) |  |
| ProfessorName | VARCHAR2(100) |  |

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| **PILLAR** |  |  |
| PillarID | VARCHAR2(20) | Primary Key, NOT NULL |
| PillarType | VARCHAR2(20) | CHECK (PillarType IN (‘Academic’, ‘Social’, ‘Ethical’)) |
| Description | VARCHAR2(300) |  |

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| **ATTENDANCE\_SIGNUP** |  |  |
| SignupID | VARCHAR2(20) | Primary Key, NOT NULL |
| DateofDeclaration | DATE | DD-MM-YYYY |
| SignupFormat | VARCHAR2(100) |  |
| EmployeeID | VARCHAR2(20) | Foreign Key, references Faculty |
| SignUpTypeID | VARCHAR2(20) | Foreign Key, references SIGNUP TYPE |
| SID | VARCHAR2(20) | Foreign Key, references STUDENT |
| PillarID | VARCHAR2(20) | Foreign Ket, references PILLAR |
| Description | VARCHAR2(300) |  |

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| **SIGNUP\_TYPES** |  |  |
| SignUpTypeID | VARCHAR2(20) | Primary Key, NOT NULL |
| Description | VARCHAR2(300) |  |

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| **SIGNUP\_TYPES\_FACULTY** |  |  |
| SignUpTypeID | VARCHAR2(20) | Foreign Key, references SIGNUP TYPE |
| FacultyInvolved | VARCHAR2(100) |  |

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| **FACULTY** |  |  |
| EmployeeID | VARCHAR2(20) | Primary Key, NOT NULL |
| FirstName | VARCHAR2(100) |  |
| MiddleName | VARCHAR2(100) |  |
| LastName | VARCHAR2(100) |  |
| UANetID | VARCHAR(50) | UNIQUE |
| EmailID | VARCHAR2(50) | UNIQUE |
| Department | VARCHAR(50) |  |
| JobTitle | VARCHAR2(100) |  |

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| **FACULTY\_PHONE** | |  | |  |
| EmployeeID | | VARCHAR2(20) | | Foreign Key, references FACULTY |
| PhoneNumber | | VARCHAR2(100) | |  |
| **CAN\_AUTHORIZE** |  | |  | |
| SignUpTypeID | VARCHAR2(20) | | Foreign Key, references SIGNUP\_TYPES | |
| EmployeeID | VARCHAR2(20) | | Foreign Key, references FACULTY | |

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| **EVENTS** |  | |
| EventID | VARCHAR2(20) | Primary Key |
| EventName | VARCHAR2(100) | Should not be NULL |
| EventDescription | VARCHAR2(100) | Should not be NULL |
| PillarType | VARCHAR2(20) | CHECK (pillartype IN (‘Academic’,’Ethical’,’Social’) |
| PointsAllocated | NUMBER(1) | CHECK (pointsAllocated BETWEEN 1 and 4\*) |
| EventType | VARCHAR2(50) | CHECK (eventtype IN ‘Career Management’,’Program Activities’,’Other’) |
| Date | DATE |  |
| Location | VARCHAR2(50) |  |

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| **STUDENT\_DETAILS** |  | |
| SID | VARCHAR2(20) | Primary Key.Foreign key, references STUDENT |
| SignUpID | VARCHAR2(20) | Primary Key.Foreign key, references ATTENDANCE\_SIGNUP |
| EventID | VARCHAR2(20) | Foreign key, references EVENTS |
| EntryID | VARCHAR2(20) | Primary Key |
| PointsObtained | NUMBER(2) |  |
| RemainingPoints | NUMBER(2) | CHECK (remainingpoints BETWEEN 0 AND 45) |
| SemesterTerm | VARCHAR2(50) |  |

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| **SEMESTER\_DETAILS** |  | |
| SID | VARCHAR2(20) | Primary Key.  Foreign key, references STUDENT |
| PID | VARCHAR2(20) | Primary Key.  Foreign key, references PROGRAM |
| StartSemester | VARCHAR2(50) |  |
| GraduationTermYear | VARCHAR2(20) |  |
| GraduationTermMonth | VARCHAR2(20) |  |
| CurrentSemester | VARCHAR2(50) |  |
| AcceptDate | DATE |  |

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| **OFFICE\_POSITION** |  | |
| SID | VARCHAR2(20) | Primary Key.  Foreign key, references STUDENT |
| CommitteeID | VARCHAR2(20) | Primary Key.  Foreign key, references OFFICE |
| Role | VARCHAR2(100) | Should not be NULL |
| StartDate | DATE |  |
| EndDate | DATE |  |

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| **SCHOLARSHIP\_DETAILS** |  | |
| SID | VARCHAR2(20) | Primary Key.  Foreign key, references STUDENT |
| ScholarshipID | VARCHAR2(20) | Primary Key.  Foreign key, references SCHOLARSHIP |
| StartDate | DATE |  |
| EndDate | DATE |  |
| TypeID | VARCHAR2(20) | Primary Key |

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| **CAN\_AUTHORIZE** |  | |
| SignupTypeID | VARCHAR2(20) | Primary Key. Foreign key, references SIGNUP\_TYPES\_FACULTY. |
| EmployeeID | VARCHAR2(20) | Primary Key. Foreign key, references FACULTY. |

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| **NOMINATIONS** |  | |
| SID | VARCHAR2(20) | Primary Key. Foreign key, references STUDENT. |
| NominatedBy | VARCHAR2(20) | Primary Key. Foreign key, references STUDENT. |
| FName | VARCHAR2(50) | Foreign key, references STUDENT. |
| LName | VARCHAR2(50) | Foreign key, references STUDENT. |
| Comments | VARCHAR2(1000) |  |