**Assignment 2 DW Design (University Case)**

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**Phase 1**: High Level Design

Facts are:

1. University Student Application

2. Student Program Enrollments

3. Student Module Registration

4. Student Module attendance

5. Student Module Results

Dimensions are:

1. Time

2. Student

3. PreviousSchool

4. PreviousCollege

5. Program

6. UniversitySchool

7. Staff

8. Module

For Business Process 1: University Student Application

Time

Student

Univ\_Student\_application\_Fact

Program

PreviousCollege

PreviousSchool

UniversitySchool

For Business Process 2: Student Program Enrollments

Time

Student

Program

Univ\_Student\_application\_Fact

PreviousCollege

PreviousSchool

UniversitySchool

For Business Process 3: Student Module Registration

Time

Student

Program

Univ\_Student\_application\_Fact

Module

UniversitySchool

For Business Process 4: Student Module attendance

Time

Student

Program

Univ\_Student\_application\_Fact

Module

Staff

UniversitySchool

For Business Process 5: Student Module Results

Time

Student

Program

Univ\_Student\_application\_Fact

Module

Staff

UniversitySchool

**Phase 2**:

**Dimension Tables are:**

Program(ProgramID(PK), ProgramNo, ProgramName, ProgramDuration, ProgramInCharge)

Time(TimeID(PK), TDate, TMonth, Tqtr, Tyear)

Student(StudentID(PK), StudentFName, StudentLName, StudentDateofBirth, StudentAddress)

Module(ModuleID(PK), ModuleName, ModuleInstruor, ModuleCredits, ModuleDuration)

Staff(StaffFName(PK), StaffLName, StaffAddress, StaffGender, StaffLevel)

UniversitySchool(UnivSchID(PK), UnivSchName, UnivSchAddress, UnivSchCity, UnivSchState)

**Fact Table is:**

StudentModuleResultsFact(StudentID(FK), UnivSchID(FK), ModuleID(FK), StaffID(FK), TimeID(FK), ProgramID(FK), ExamMarks, TotalMarks, Grades, Attempt)

**Star Schema for Student Module Results:**

Student UniversitySchool

UnivSchID

UnivSchName

UnivSchAddress

UnivSchCity

UnivSchState

StudentID

StudentFName

StudentLName

StudentDateofBirth

StudentAddress

StudentModuleResultsFact

ModuleID

ModuleName

ModuleInstructor

ModuleCredits

ModuleDuration

StudentID

UnivSchID

ModuleID

StaffID

TimeID

ProgramID

ExamMarks

TotalMarks

Grades

Attempt

Module

Program Time Staff

ProgramID

ProgramNo

ProgramName

ProgramDuration

ProgramInCharge

TimeID

TDate

TMonth

TQtr

TYear

StaffID

StaffFName

StaffLName

StaffAddress

StaffGender

StaffLevel