Student Information System Physical Data Model CONSTRAINT CHECK VALID PHONE NUMBER FORMAT SIS_STUDENT SIS_STUDENT_CREDENTIAL SIS_CREDENTIAL PK student_id NUMBER PK, FK student_id NUMBER PK | credential# NUMBER NN | school_associated | NVARCHAR2(30) NN |first_name NVARCHAR2(50) PK, FK | credential# NUMBER NN |last_name NVARCHAR2(50) DATE NN name NVARCHAR2(50) NN start_date CONSTRAINT **CONSTRAINT** completion_date CK |phone_number NCHAR(12) DATE NVARCHAR2(2) CK type CHECK CHECK TYPE IN ("MI", NN status NVARCHAR2(2) credential_satus | NCHAR(1) **VALID EMAIL** "FT", "CT", "DP" DATE NN status_date **FORMAT** "AD", "D") CK email NVARCHAR2(100) CONSTRAINT CHECK CONSTRAINT **CREDENTIAL STATUS IN** SIS_CREDENTIAL_COURSE CHECK SIS_STUDENT_COURSE_RECORD ("A", "G", "E") LETTER GRADE IN **NUMBER** PK, FK credential# CONSTRAINT PK, FK CRN ("A+","A","A-",etc...) NUMBER(5) PK, FK | course_code NCHAR(7) CHECK PK, FK | semester_code NUMBER(6) TYPE FLAG IN (1, 2) CK type_flag NUMBER(1) NCHAR(7) course_code SIS_SCHEDULED_COURSE PK, FK student_id NUMBER(15) NUMBER(5) PK CRN CK NVARCHAR2(2) letter_grade PK |semester_code NUMBER(6) CONSTRAINT FK course_code **CONSTRAINT** NCHAR(7) **CONSTRAINT** CHECK CHECK PROV IN ("AB", "BC", "SK", CK | section_code NCHAR(1) CHECK "MB", "NB", "NL", "NT", SEMESTER CODE VALID COURSE CODE "NS", "NU", "ON", "PE", **FORMAT VALID FORMAT** SIS_INSTRUCTIOR "QC", "YT") PK |instructor_id NUMBER CONSTRAINT NN |first_name NVARCHAR2(50) CHECK NN |last_name NVARCHAR2(50) 0.5 <= CREDITS <= 9 SIS_COURSE NN address NVARCHAR2(100) ⊢PK, CK course_code NCHAR(7) NN city NVARCHAR2(40) CONSTRAINT NVARCHAR2(100) NN **CONSTRAINT** CK prov NCHAR(2) CHECK CHECK num_of_credits | NUMBER(2,1) NCHAR(6) CK postal_code SECTION CODE IN POSTAL CODE CK |phone_number NCHAR(12) **VALID FORMAT** ("A", "B", "C", "D", CK email NVARCHAR2(100) **CONSTRAINT** CHECK **CONSTRAINT** CONSTRAINT COURSE NOT ITS OWN CHECK SIS_SCHEDULED_COURSE_INSTRUCTOR CHECK PREREQUISITE VALID EMAIL VALID PHONE PK, FK CRN NUMBER(5) SIS_COURSE_PREREQUISITE FORMAT **NUMBER FORMAT** PK, FK | semester_code NUMBER(6) NCHAR(7) prerequisite_course_code PK, FK |instructor_id **NUMBER** PK, FK | course_code NCHAR(7)