Infinite Campus Schema Bootcamp

This series serves as an introduction to the Infinite Campus SIS Schema. Throughout the eight sessions that compose this series, learners will explore table structures that relate to core Infinite Campus SIS functionality including calendars, grading, attendance and more.

Some SQL concepts may be addressed throughout this series; however, the primary focus will be the database structure of Infinite Campus SIS. While instructors will present using a recent version of Microsoft SQL Server Management Studio (SSMS), learners may use SSMS, Azure, or their preferred relational database management system. Instruction on these third-party products is not included in this course.

Schema Bootcamp - Session 1: Getting Started

Prerequisites:

- Mastering Campus or equivalent experience
- Download SSMS, Azure, or your preferred database management system
- Confirm ability to connect to Campus Training Server: See attached training materials

Agenda:

- Database Structure and Terminology
- Campus Database Resources
- Single-Table Query Structure
- SQL Functions: CONCAT, FORMAT

Tables/Views Reviewed:

- Calendar, Course, Enrollment, School, Student View

Schema Bootcamp - Session 2: Core Views

Prerequisites:

- SQL Concepts: Single-Table SELECT Queries
- SQL Functions: CONCAT, FORMAT
- Campus Database Tables/Views: Calendar, Enrollment, School

Agenda:

- Additional Campus Database Resources
- Campus Views: Individual, StaffMember, Student
- INNER JOINS
- CASE Expressions
- SQL Functions: GETDATE

Tables/Views Reviewed:

- Employment, EmploymentAssignment, EmploymentAssignmentLocation, Identity, Individual View, Person, SchoolYear, StaffMember View, Student View

Schema Bootcamp - Session 3: Calendars & User Security

Prerequisites:

- SQL Concepts: Familiarity with INNER JOINS, CASE Expressions
- SQL Functions: GETDATE
- Campus Database Tables/Views: Individual View, SchoolYear, StaffMember View, Student View

Agenda:

- Calendar Tables
- User Security Tables
- LEFT JOINS
- WHERE NOT EXISTS
- SQL Functions: COUNT, DATENAME

Tables/Views Reviewed:

- Calendar, CampusTool, Day, DayEvent, GradeLevel, Period, PeriodSchedule, ScheduleStructure, Term, TermSchedule, UserAccount, UserGroup, UserGroupMember, UserGroupToolRights, UserGroupSchoolYearRights, UserSchoolYearRights, UserToolRights

Schema Bootcamp - Session 4: Census

Prerequisites:

- SQL Concepts: Familiarity with LEFT JOINS
- Campus Database Tables/Views: Employment, Identity, Person

Agenda:

- Demographic Tables
- Relationship Tables
- Household & Address Tables
- SQL Functions: COALESCE, ISNULL

Tables/Views Reviewed:

- Address, CampusAttribute, CampusDictionary, Contact, CustomStudent, Household, HouseholdLocation, HouseholdMember, IdentityRaceEthnicity, RaceEthnicity, RelatedPair

Schema Bootcamp - Session 5: Courses & Sections

Prerequisites:

- SQL Functions: COALESCE, ISNULL
- Campus Database Tables/Views: Course, Period, PeriodSchedule, Term

Agenda:

- Course/Section Tables
- Custom Attributes
- UPDATE Statements
- Course Masters & Course Catalog Tables
- CROSS JOINS

Tables/Views Reviewed:

- Course, CourseCatalog, CourseMaster, CustomCourse, Department, Roster, Room, Section, SectionPlacement, SectionStaffHistory, Trial

Schema Bootcamp - Session 6: Grading

Prerequisites:

- SQL Concepts: UPDATE Statements
- Campus Database Tables/Views: CourseCatalog, CourseMaster, Section

Agenda:

- District-Wide Grading Setup
- Traditional vs. Standards-Based Configurations
- Course/CourseMaster Grading Setup
- Posted Scores
- Grade Book Assignments

Tables/Views Reviewed:

- CurriculumStandard, Curve, CurveListItem, GradingTask, GradingTaskCalculationCourse, GradingTaskCredit, LessonPlanGroupCourse, LessonPlanPreferenceCourse, ScoreGroup, ScoreListItem

Schema Bootcamp - Session 7: Assessments, Attendance, Behavior, Lockers & Transcripts

Prerequisites:

- Campus Database Tables/Views: CurriculumStandard, GradingTask, GradingTaskCredit, ScoreGroup

Agenda:

- Transcript Tables
- Attendance Tables
- Behavior Tables
- Locker Tables
- Assessment Tables
- INSERT Statements
- SQL Functions: AVG, DATEDIFF, MAX, MIN, AVG

Tables/Views Reviewed:

- AttDayAggregation, Attendance, AttendanceExcuse, BehaviorIncident, BehaviorEvent, BehaviorReferral, BehaviorRole, BehaviorResolution, BehaviorResType, BehaviorType, Lock, LockCombo, Locker, LockerAssignment, LockerLocation, Test, TestListItem, TestScore, TranscriptCourse, TranscriptCredit

Schema Bootcamp - Session 8: Expanded Student Information

Prerequisites:

- SQL Concepts: INSERT Statements

Agenda:

- Flag Tables
- Health Tables
- Custom Form Tables
- English Language Learner Tables
- Federal Program Tables
- Fee Tables
- FRAM Tables
- Plan Tables (RTI, PLP, SPED)
- Transportation Tables

Tables/Views Reviewed:

- CustomModule, ESignature, Fee, FeeAdjustment, FeeAssignment, FeeCredit, FeePayment, FeeVoid, Form, FormDocument, FormESignature, HealthCondition, HealthConditionList, LEP, LEP Service, LEPServiceType, Medication, MedicationDose, MedicationName, MedicationForm, Plan, PlanType, POSEligibility, Program, ProgramParticipation, TeamMember, Transportation, TransportationBus