# Medical Body Mass Index

| SIS Table Name | Medical_bmi |
|---|---|
| SIS table Code | MB |
| Data Collection LEA Level | School |
| Cycles | 7 |
| # of Data Items | 13 |
| Source | eSchool |

## Source

These fields receive their values directly from eSchool table fields:

| Column ID | Element | Column Name | Cycles | Source Table | Source Column |
|---|---|---|---|---|---|
| MB0030 | LEA | lea | 7 | eSch: REG_BUILDING | STATE_CODE_EQUIV |
| MB0040 | SSN | ssn | 7 | eSch: REG_PERSONAL | SSN |
| MB0045 | Unique Student ID | uniq_stu_id | 7 | eSch: REG_PERSONAL | STATE_REPORT_ID |
| MB0050 | Age | age | 7 | Calculated field.  See below | |
| MB0060 | Location | location | 7 | eSch: MED_GROWTH | LOCATION |
| MB0070 | Height | height | 7 | eSch: MED_GROWTH | HEIGHT |
| MB0080 | Weight | weight | 7 | eSch: MED_GROWTH | WEIGHT |
| MB0090 | BMI | bmi | 7 | eSch: MED_GROWTH_BMI_ARK | BMI |
| MB0100 | BMI Status | bmi_status | 7 | Derived field.  See below | |
| MB0120 | Exam Date | exam_date | 7 | eSch: MED_GROWTH | TEST_DATE |
| MB0125 | Grade | grade_level | 7 | eSch: MED_GROWTH | GRADE |
| MB0130 | Reason Not Tested | reason_not_tested | 7 | eSch: MED_GROWTH_ARK | REASON_NOT_ACCESSED |
| MB0140 | Referral Code | referral_code | 7 | eSch: MED_REFERRAL | REFERRAL_CODE |

## Calculated Field

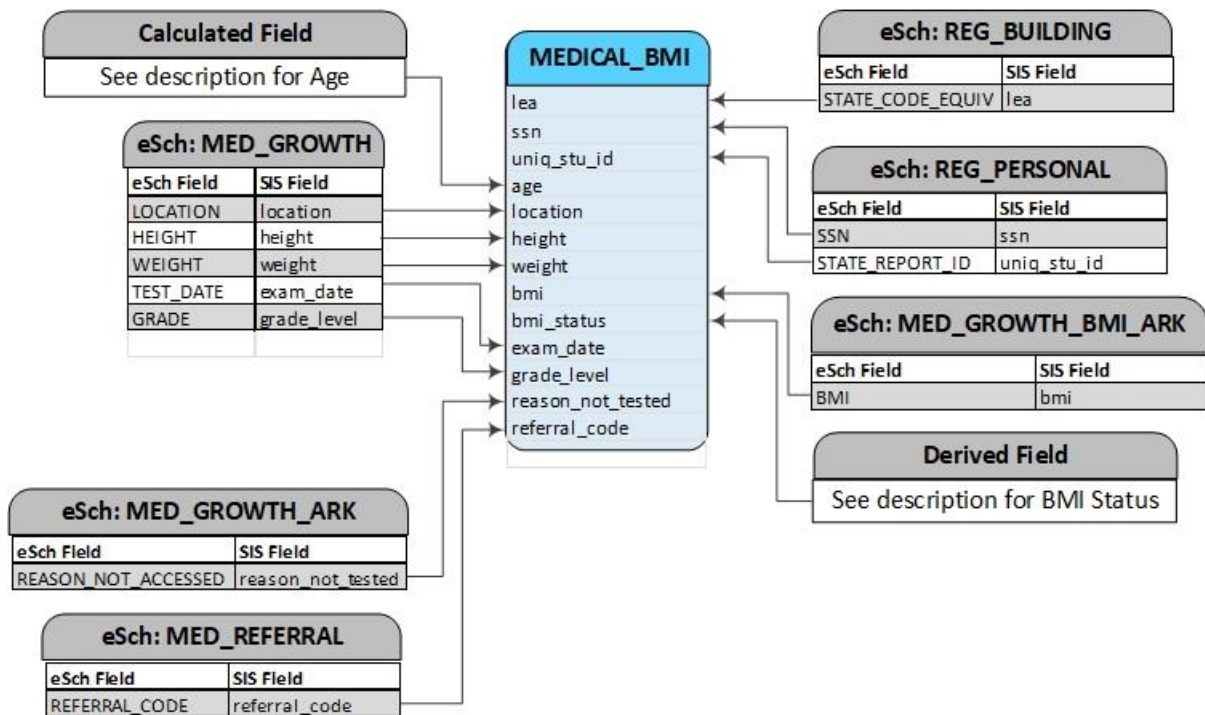Field ID "MB0050", Element "Age", Column Name "age", Cycle 7.
Age is the calculated year difference between the values of eSchool fields REG.BIRTHDATE and MED_GROWTH. TEST_DATE to determine the age of the student on the date of examination.

## Derived Field

Field ID "MB0100", Element "BMI Status", Column Name "bmi_status", Cycle 7.
BMI Status is determined by comparing the value from the eSchool field MED_GROWTH. PERCENT_BMI to these criteria defined by the US Centers for Disease Control to determine weight category for children compared to others of the same age:

- Underweight (UW): BMI of less than the 5th percentile
- Healthy Weight (HW): BMI from the 5th percentile to below the 85th percentile
- Overweight (OW): BMI above the 85th percentile to below the 95th percentile
- Obese (OB): BMI greater than or equal to the 95th percentile

**Calculated Field**

See description for Age

**eSch: MED_GROWTH**

| eSch Field | SIS Field |
|---|---|
| LOCATION | location |
| HEIGHT | height |
| WEIGHT | weight |
| TEST_DATE | exam_date |
| GRADE | grade_level |

**MEDICAL_BMI**

- lea
- ssn
- uniq_stu_id
- age
- location
- height
- weight
- bmi
- bmi_status
- exam_date
- grade_level
- reason_not_tested
- referral_code

**eSch: REG_BUILDING**

| eSch Field | SIS Field |
|---|---|
| STATE_CODE_EQUIV | lea |

**eSch: REG_PERSONAL**

| eSch Field | SIS Field |
|---|---|
| SSN | ssn |
| STATE_REPORT_ID | uniq_stu_id |

**eSch: MED_GROWTH_BMI_ARK**

| eSch Field | SIS Field |
|---|---|
| BMI | bmi |

**Derived Field**

See description for BMI Status

**eSch: MED_GROWTH_ARK**

| eSch Field | SIS Field |
|---|---|
| REASON_NOT_ACCESSED | reason_not_tested |

**eSch: MED_REFERRAL**

| eSch Field | SIS Field |
|---|---|
| REFERRAL_CODE | referral_code |

## Selection Criteria

```
FROM REG_PERSONAL rp
INNER JOIN (
                        SELECT DISTRICT, STUDENT_ID, SCHOOL_YEAR, BUILDING, GRADE,
                                RANK() OVER (PARTITION BY DISTRICT, STUDENT_ID ORDER BY
ENTRY_DATE DESC) As RowOrder
                        from reg_entry_with rew
                        WHERE rew.SCHOOL_YEAR = {2}
                                AND rew.ENTRY_DATE <= '{1}'
                                AND (rew.withdrawal_date >= '{0}' OR rew.withdrawal_date IS NULL)
        ) as rew ON rew.DISTRICT = rp.DISTRICT
        AND rew.STUDENT_ID = rp.STUDENT_ID
        AND rew.RowOrder = 1
INNER JOIN [MED_GROWTH] mg
ON mg.STUDENT_ID = rp.STUDENT_ID
AND mg.TEST_DATE <= '{1}'
AND mg.TEST_DATE >= '{0}'
INNER JOIN MED_GROWTH_BMI_ARK mgba
ON mgba.STUDENT_ID = mg.STUDENT_ID
AND mgba.TEST_DATE = mg.TEST_DATE
INNER JOIN REG
ON REG.STUDENT_ID = mg.STUDENT_ID
INNER JOIN
REG_BUILDING AS rb
ON REG.DISTRICT = rb.DISTRICT
AND REG.BUILDING = rb.BUILDING
```

```
LEFT OUTER JOIN MED_GROWTH_ARK mga
ON mga.STUDENT_ID = mg.STUDENT_ID
AND mga.TEST_DATE = mg.TEST_DATE
LEFT OUTER JOIN MED_REFERRAL mr
ON mr.STUDENT_ID = mg.STUDENT_ID
AND mr.TEST_TYPE = 'SPI_GROWTH'
AND mr.TEST_DATE = mg.TEST_DATE
```