

2024 年 冬季学期 数据库原理 1 实验 3

2025. 01. 02

Dataset Introduction:

This dataset provides birth rates and related data across the 50 states and DC from 2016 to 2021. The data was sourced from the Centers for Disease Control and Prevention (CDC). Each row in the dataset is considered a category defined by the state, birth year, baby's gender, and educational level of the mother. Three quantities are given for each category: number of births, mother's average age, and average baby weight.

Column Description:

1. State: state name in full (includes District of Columbia)
2. State Abbreviation: 2-character state abbreviation
3. Year: 4-digit year
4. Gender: Gender of baby
5. Education Level Code: See table below
6. Number of Births: Number of births for the category
7. Average Age of Mother (years): Mother's average age in the category
8. Average Birth Weight (g): Average birth weight in the category

Code	Mother's Education Level
1	8th grade or less
2	9th through 12th grade with no diploma
3	High school graduate or GED completed
4	Some college credit, but not a degree
5	Associate degree (AA, AS)
6	Bachelor's degree (BA, AB, BS)
7	Master's degree (MA, MS, MEng, MEd, MSW, MBA)
8	Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD)
-9	Unknown or Not Stated

1. 按洲和年份分组查询，出生婴儿的男女比例。
输出格式：(State, Year, MRatio, FRatio)
2. 按年份分组查询，查询母亲受教育程度与平均生育年龄的关系。
输出格式：(Year, Education_Level_Code, Average_Age_of_Mother)
3. 按年份分组查询，查询平均生育年龄与婴儿平均体重的关系。
输出格式：(Year, Average_Age_of_Mother, Average_Birth_Weight)