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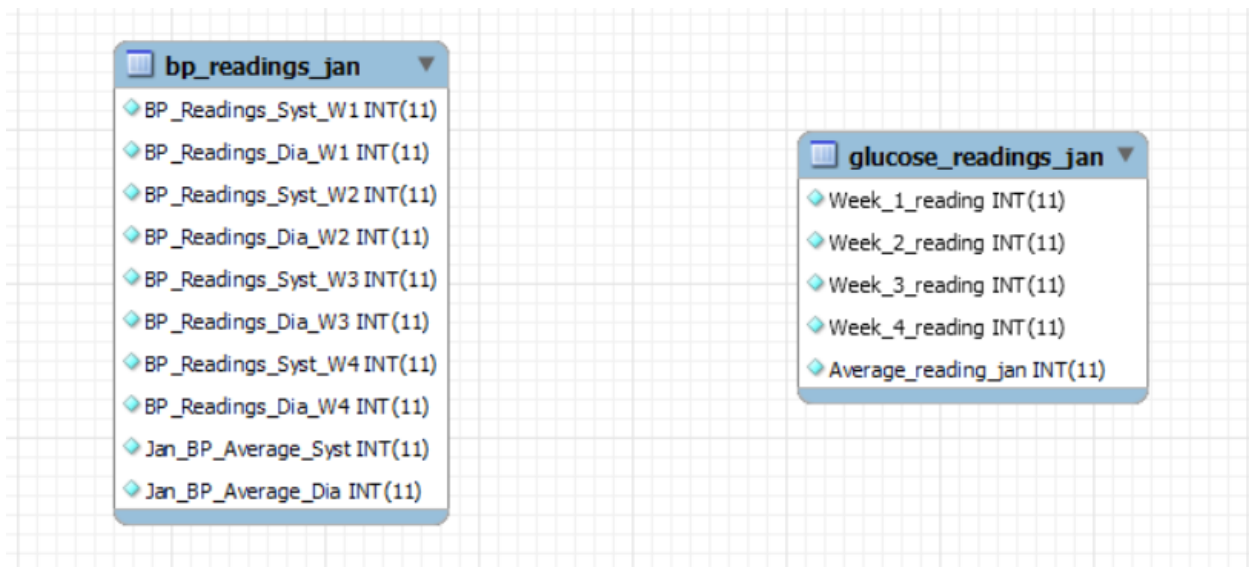
SWDV 691: Week 3

Database Design Document

Database: Health Tracker

A traditional relational database is what I have chosen for the Health Tracker application. The data will be highly structured and regular, with well-defined relationships. I will be using an SQL database inside of Microsoft azure. I broke down the tables into what I believe are easier to deal with.

Here is an example of two tables before.

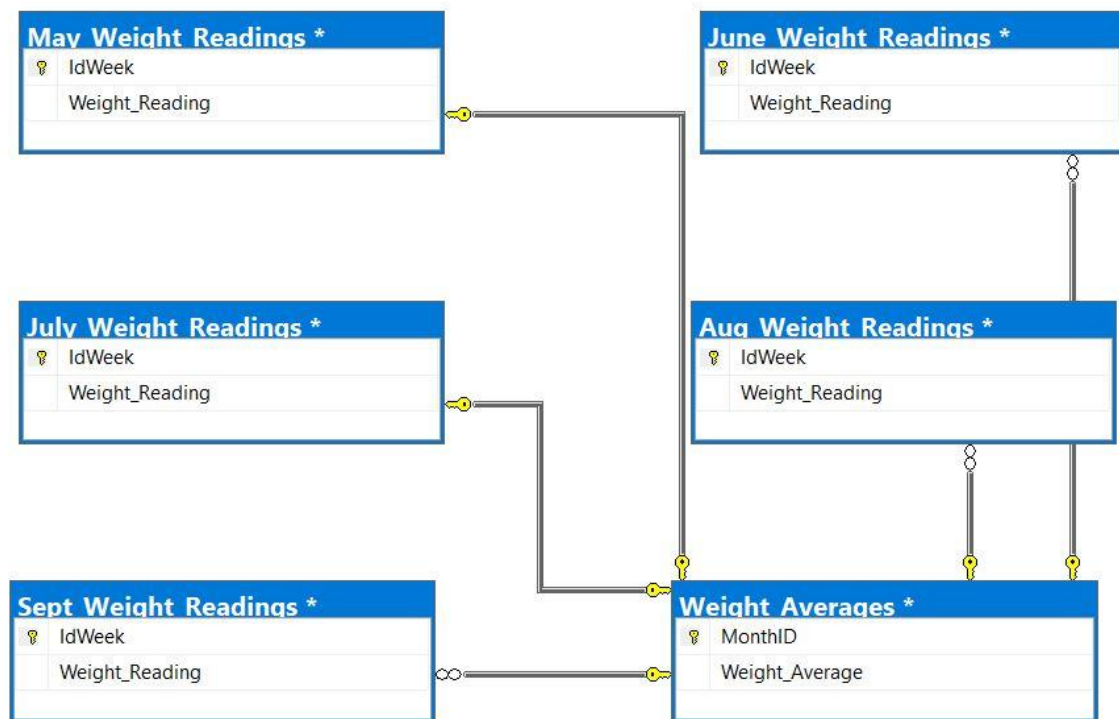


The image shows two database tables side-by-side on a grid background. The table on the left is titled 'bp_readings_jan' and contains 10 rows of data. The table on the right is titled 'glucose_readings_jan' and contains 5 rows of data. Each row is preceded by a blue diamond icon.

bp_readings_jan
BP_Readings_Syst_W1 INT(11)
BP_Readings_Dia_W1 INT(11)
BP_Readings_Syst_W2 INT(11)
BP_Readings_Dia_W2 INT(11)
BP_Readings_Syst_W3 INT(11)
BP_Readings_Dia_W3 INT(11)
BP_Readings_Syst_W4 INT(11)
BP_Readings_Dia_W4 INT(11)
Jan_BP_Average_Syst INT(11)
Jan_BP_Average_Dia INT(11)

glucose_readings_jan
Week_1_reading INT(11)
Week_2_reading INT(11)
Week_3_reading INT(11)
Week_4_reading INT(11)
Average_reading_jan INT(11)

Here's an example of how the tables for the tests will look like now.



-- Create Weight tables

```
CREATE TABLE May_Weight_Readings
(
    IdWeek int IDENTITY (1,1) PRIMARY KEY,
    Weight_Reading int
)
```

-- Create Blood Pressure tables

```
CREATE TABLE May_BP_Readings
(
    IdWeek int IDENTITY (1,1) PRIMARY KEY,
    BP_Readings_Syst int, BP_Readings_Dia int
)
```

```
-- Create Glucose tables
CREATE TABLE May_Glucose_Readings
(
    IdWeek int IDENTITY (1,1) PRIMARY KEY,
    Glucose_Reading int
)
```