Project 7 - Normalize

Step 1

- 1. Starting schema: R
- 2. Decompose on {birthplace} -> {continent}
- 3. Results:
 - o R1 = {birthplace, continent}
 - R2 = {birthplace, composer, work, setting, era, era_dates}

Step 2

- 1. Starting schema: R2
- 2. Decompose on {composer} -> {birthplace}
- 3. Results:
 - o R3 = {birthplace, composer}
 - o R4 = {composer, work, setting, era, era_dates}

Step 3

- 1. Starting schema: R4
- 2. Decompose on {composer, work} -> {setting}
- 3. Results:
 - o R5 = {composer, work, setting}
 - o R6 = {composer, work, era, era_dates}

Step 4

- 1. Starting schema: R6
- Decompose on {era} -> {era_dates}
- 3. Results:
 - o R7 = {era, era_dates}
 - o R8 = {composer, work, era}

Final Database:

- o R1 = {birthplace, continent}, only FD is {birthplace} -> {continent}
- o R3 = {birthplace, composer}, only FD is {composer} -> {birthplace}
- \circ R5 = {composer, work, setting}, only FD is {composer, work} -> {setting}
- o R7 = {era, era_dates}, only FD is {era} -> {era_dates}
- o R8 = {composer, work, era}