



Data Management and Visualization

Exam February 22th, 2023

Conceptual Design

1. Textual form

flowchart TB

```
F[[ ENERGY
```

```
tot_consumed
tot_produced]]
```

```
F --- TimeSlot
```

```
F --- Date --- DayOfTheWeek
```

```
Date --- Holiday
```

```
Date --- Month --- 6M --- Year
```

```
Month --- 4M --- Year
```

```
Month --- MonthOfTheYear
```

```
F --- BuildingCONF --- City --- District --- Region
```

```
BuildingCONF --- ConstructionYear
```

```
BuildingCONF --- Rooms
```

```
BuildingCONF --- People
```

```
BuildingCONF --- Type
```

```
F --- WeatherCONF --- Rain
```

```
WeatherCONF --- Fog
```

```
WeatherCONF --- Snow
```

```
WeatherCONF --- Clouds
```

```
WeatherCONF --- Sun
```

```
WeatherCONF --- WindSpeed
```

```
WeatherCONF --- ExternalTemperature
```

```
WeatherCONF --- SolarRadiation
```

```
# the CONF labeled metrics are Junk dimension, omitting them is not considered wrong
```

2. Star schema

