Warrier - Orr diagrams do all of this PLUS produce structured programs that run the first time.

Step 1 - Identify the output
"How will I be able to tell when I'm done with the program?"
- Writing a program which is clearly defined vs. writing a program you aren't sure of what its suppose to do.

Step 2 - define logical database

Example: Program to balance checkbook and give monthly report

```
check file
  { year (1,y) } { month (1,m) } { day (1,d) } { transactions (1,t) } { debit (0,1) ⊕ credit (0,1) }

mutual exclusive
```

Report's logical data structure