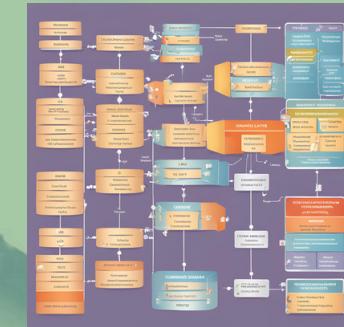


NORMALIZATION

BY OMKAR SHIRWADKR

WHAT IS NORMALIZATION

- NORMALIZATION IS THE PROCESS OF ORGANIZING THE DATA IN THE DATABASE.
- NORMALIZATION DIVIDES THE LARGER TABLE INTO SMALLER AND LINKS THEM USING RELATIONSHIPS.
- THE NORMAL FORM IS USED TO REDUCE REDUNDANCY FROM THE DATABASE TABLE.



REDUNDANT DATA ISSUES

INTRODUCES 3 TYPES OF ANOMALIES
INSERTION, UPDATION, DELETION

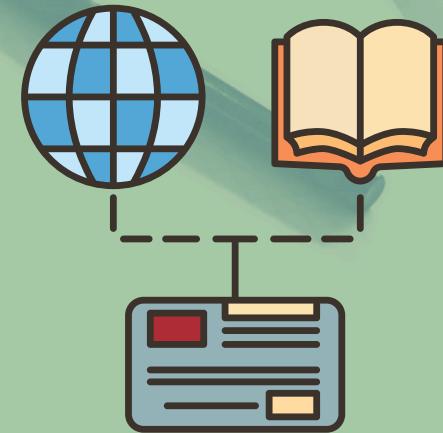


EMPLOYEE MANAGEMENT APP A CASE STUDY:

WE HAVE EMPLOYEES CONTAINING THE FOLLOWING ATTRIBUTES:

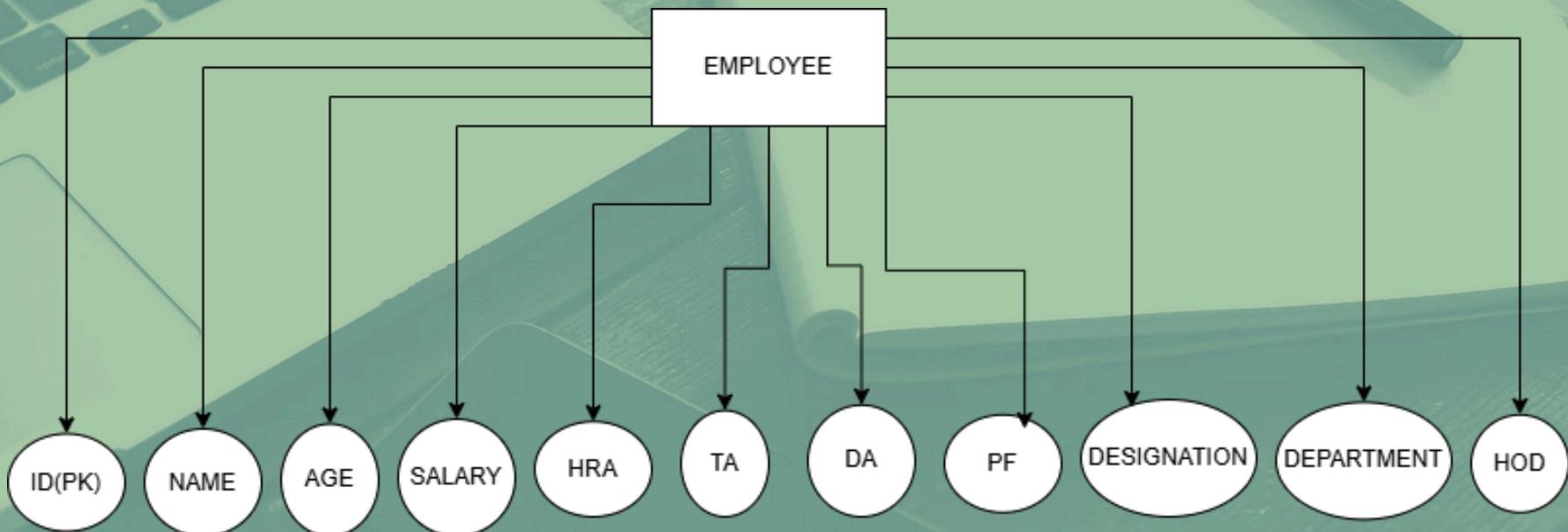
1. ID
2. NAME
3. AGE
4. SALARY
5. BASIC
6. HRA
7. TA
8. DA
9. PF
10. DESIGNATION
11. DEPARTMENT
12. HOD

WE TAKE ID AS PRIMARY KEY FOR THE ABOVE TABLE AS IT IS UNIQUE FOR EVERY EMPLOYEE



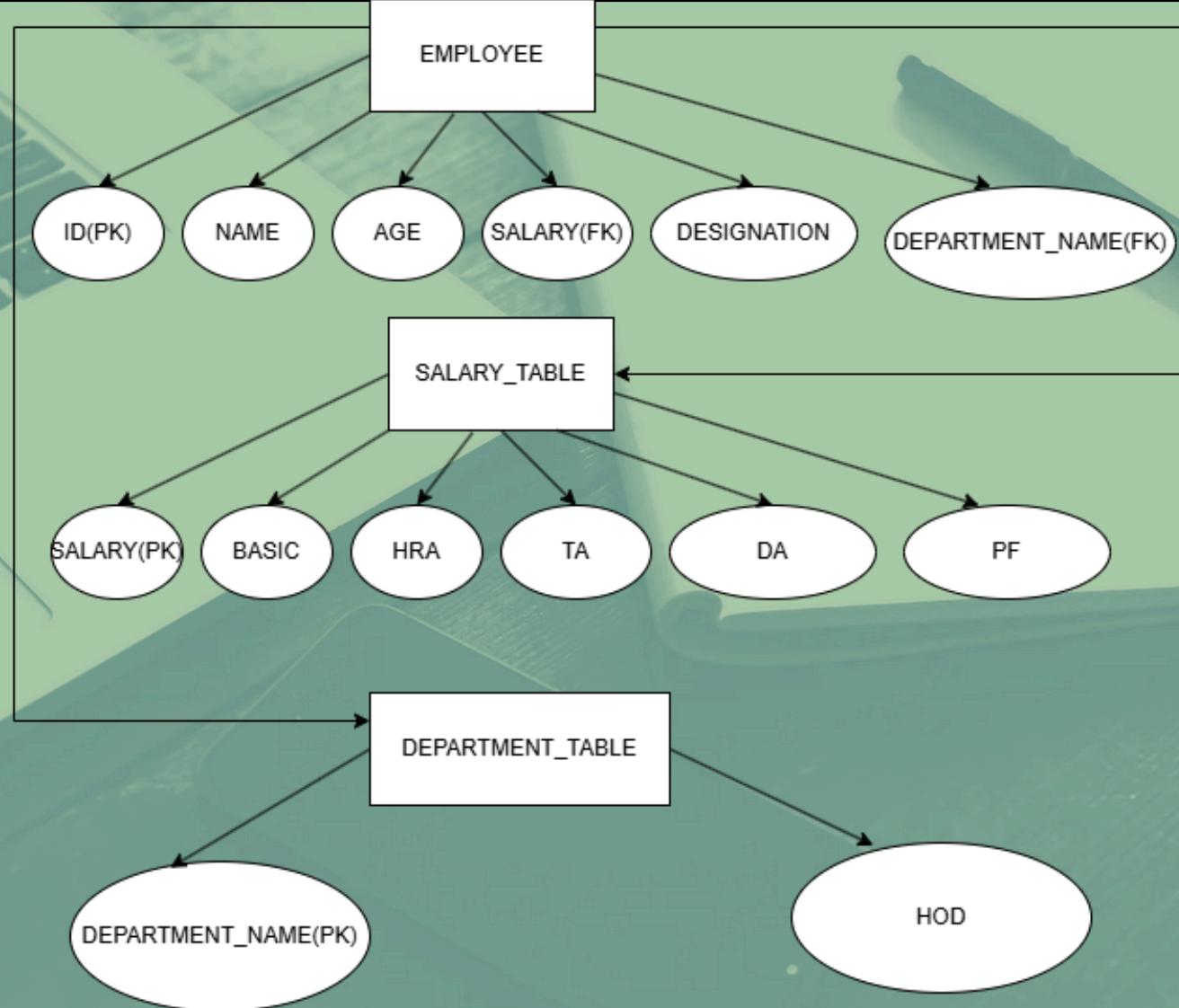
1ST NORMAL FORM

- ALL VALUES SHOULD BE ATOMIC
- THERE MUST NOT HAVE ANY MULTIVALUED ATTRIBUTE



All Values are Atomic

2ND,3RD AND BOYCE CODD NORMAL FORM





**THANK
YOU**