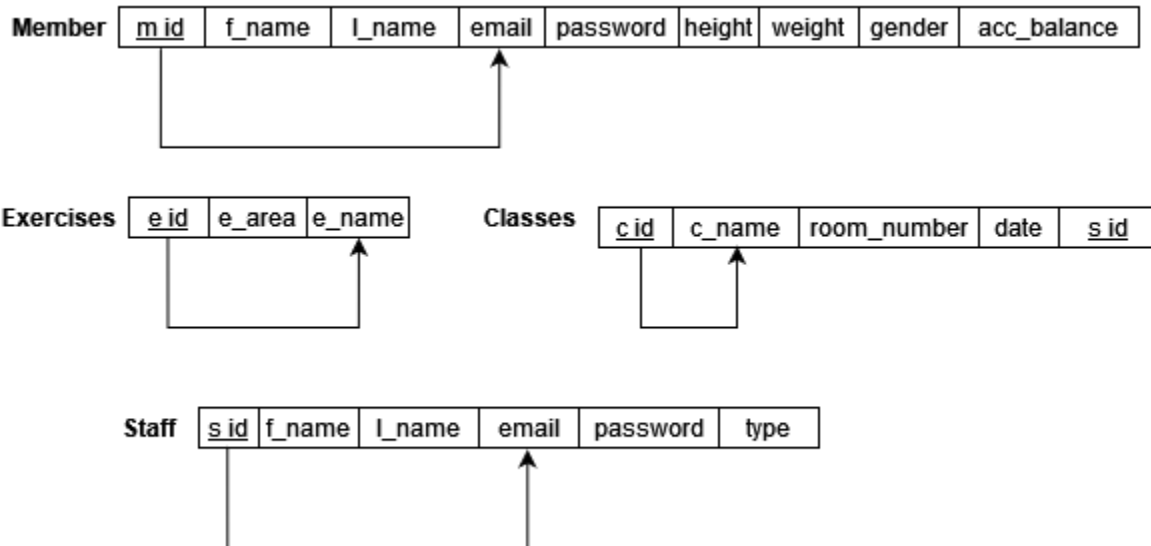


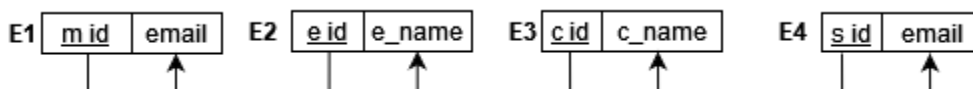
# Normalization



- *FD1:  $m\_id \rightarrow email$* 
  - By the relation “Member” above,  $m\_id$  determines email. Therefore FD1 is a **full dependency**.
- *FD2:  $e\_id \rightarrow e\_name$* 
  - By the relation “Exercises” above,  $e\_id$  determines  $e\_name$ . Therefore, FD2 is a **full dependency**.
- *FD3:  $c\_id \rightarrow c\_name$* 
  - By the relation “Classes” above,  $c\_id$  determines  $c\_name$ . Therefore FD3 is a **full dependency**.
- *FD4:  $s\_id \rightarrow email$* 
  - By the relation “Staff” above,  $s\_id$  determines email. Therefore FD4 is a **full dependency**.

## 2NF Normalization

- *E1:  $m\_id \rightarrow email$*
- *E2:  $e\_id \rightarrow e\_name$*
- *E3:  $c\_id \rightarrow c\_name$*
- *E4:  $s\_id \rightarrow email$*



### **3NF Normalization**

- No 3NF necessary