



Oct 26-9:57 AM

$DNO \rightarrow \{ COUNT_SSN, AVG_salary \} (Employee)$
 $(DNO, COUNT_SSN, AVG_Salary)$

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Members

~~ID~~, Name, email, password, SSN, PIN,
 photo_name, photo_date, ID_in_photo,
groupID, groupName

$ID \rightarrow Name, email, password, SSN, PIN$
 $groupID \rightarrow groupName$

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Functional Dependencies

Relation R

$X \rightarrow Y$

X and Y are sets of attributes in R

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First Normal Form

- attributes values are single, atomic

ID	name	phone_nums
3	Bob	(5555555, 6781234, ...)

$INF (ID, name, phone) \rightarrow (ID, name)$
 $3 \quad Bob \quad 555...$
 $3 \quad Bob \quad 678...$

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Second Normal Form

[non-prime attributes: attrib not in a candidate key

any non-prime attrib is determined by PK.

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