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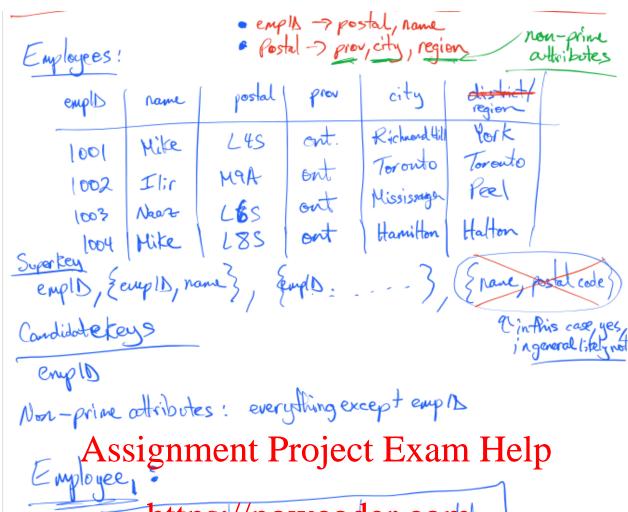
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iii. Normalization (>) NF, 2NF, 3NF, BCNF (3.5NF) .... Merel INF L> No multivalued affributes People Connothappen Mike Mike enall phone Assignment Project Exam Help Mike whiteps://powcoder.com Add WeCharpowcoder 2NF · We are INF · Any non-prime attrs. depend on the proper subset of any CK. "not port of a key" CK: SPROF-id, subject } Pof. age Prof\_id Non-line: Prof-age Physics \* Physics \* 40 \* > atributes are in an "atomic" state. decompose) R:

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-3NF upholds 2 properties! 5 Lossless Join & Dependency Preservation.

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## Task I

Consider a relation R with a set of attributes  $\alpha = \{A, B, C, D, E, F\}$  and the set of Functional Dependencies  $\mathcal{F} = \{A \rightarrow BC, B \rightarrow E, C \rightarrow BD, D \rightarrow A, E \rightarrow F, F \rightarrow BE\}$ 

(a) Compute the closure of each attribute. (vsing Amstrong's axiom) Fbs

(b) Find all candidate keys (i.e., minimal keys) of relation R.

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$$\rightarrow E$$

Assignment Project Exam Helps  $\rightarrow E$ 

(a) Assignment Project Exam Helps  $\rightarrow E$ 

(b) Find all candidate keys (i.e., minimal keys) of relation R.

A  $\rightarrow BC$ 

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(c) Bb

(d) Assignment Project Exam Helps  $\rightarrow E$ 

(d) Assignment Project Exam Helps  $\rightarrow E$ 

(e) Bb

(f) Assignment Project Exam Helps  $\rightarrow E$ 

(f) Assignment Project E

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