

1. Given the following data:

EMPLOYEE_ID	NAME	JOB_CODE	JOB	STATE_CODE	HOME_STATE
E001	Alice	J01	Chef	26	Michigan
E001	Alice	J02	Waiter	26	Michigan
E002	Bob	J02	Waiter	56	Wyoming
E002	Bob	J03	Bartender	56	Wyoming
E003	Alice	J01	Chef	56	Wyoming

Design a database that is in 3rd normal form.

PRIMARY KEY BOLD AND UNDERLINED; FOREIGN KEY ITALICIZED

Employee Table		
<u>EMPLOYEE_ID</u>	NAME	<i>STATE_CODE</i>
E001	Alice	26
E002	Bob	56
E003	Alice	56

Employee Roles Table	
<i><u>EMPLOYEE_ID</u></i>	<i><u>JOB_CODE</u></i>
E001	J01
E001	J02
E002	J02
E002	J03
E003	J01

Jobs Table	
<u>JOB_CODE</u>	JOB
J01	Chef
J02	Waiter
J03	Bartender

States Table	
<u>STATE_CODE</u>	HOME_STATE
26	Michigan
56	Wyoming