

In-class activity (9/12/2024)

- Convert each of the three sets of tables on the following page to tables. Provide a sample row for each table, and circle each one's key(s).
- The following table contains all the statistics for individual performances in UMW women's soccer matches this season. Each row is one player's performance in a game. What functional dependencies do you see in this table? What is its key(s)? (Note: soccer is incredibly tiring. Teams never play more than one match a day.)

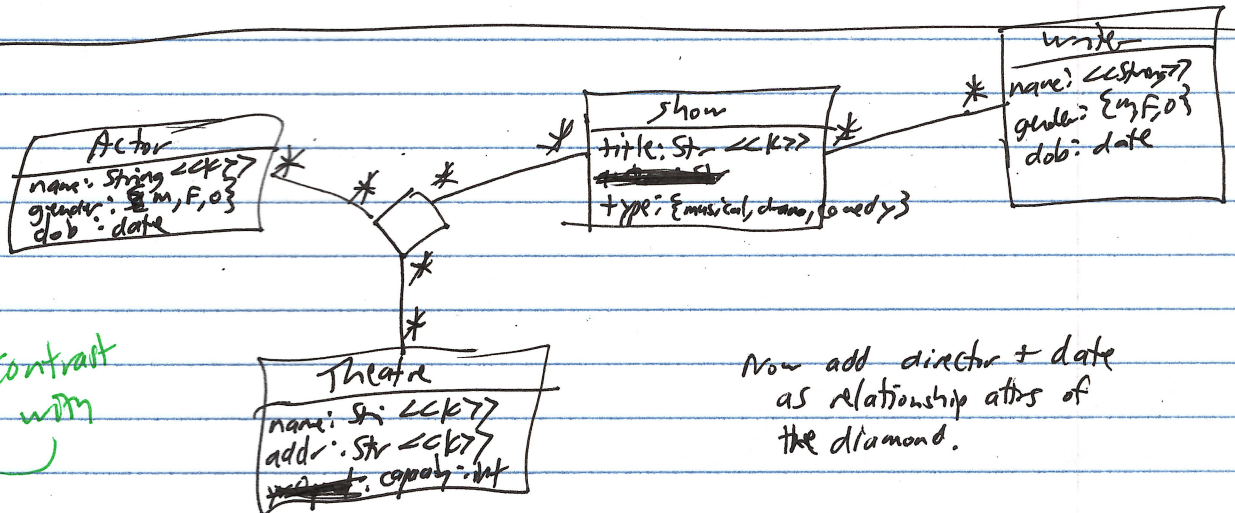
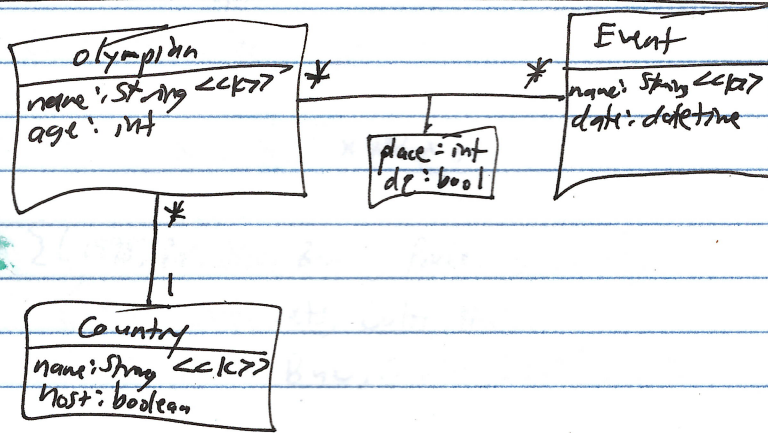
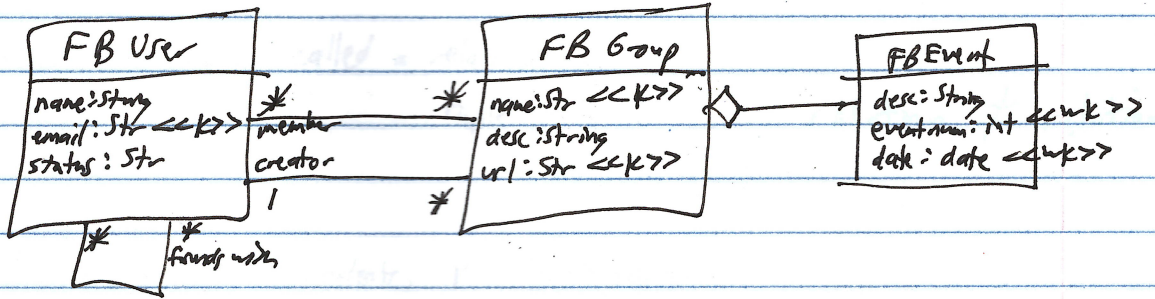
YR	UNI	POS	NAME	DATE	OPPONENT	MASCOT	LOC	GOALS	ASSTS
Sr	11	M	Franklin	8/30	RMC	Yellowjackets	Away	1	0
Sr	10	F	Imanverdi	9/1	Penn St	Nittany Lions	Away	0	0
Jr	13	D	Shaw	9/7	Rutgers	Raptors	Home	0	0
Sr	11	M	Franklin	9/7	Rutgers	Raptors	Home	1	0
So	7	F	Landel	8/30	RMC	Yellowjackets	Away	0	2
. . . m a n y o t h e r r o w s . . .									

- A table called X has attributes A, B, and C. The following functional dependencies exist in this table:
 - $\{B\} \rightarrow \{C\}$
 - $\{B\} \rightarrow \{A\}$
 - Specify a key for table X.
 - Is table X normalized? Why or why not?

- A table called Y has attributes A, B, and C. The following functional dependency exists in this table:
 - $\{B,C\} \rightarrow \{A\}$
 - Specify a key for table Y.
 - Is table Y normalized? Why or why not?

- A table called Z has attributes A, B, and C. The following functional dependency exists in this table:
 - $\{C\} \rightarrow \{A\}$
 - Specify a key for table Z.
 - Is table Z normalized? Why or why not?

More practice converting to tables:



Contract with

Now add director + date as relationship attrs of the diamond.