

A school relies on fundraising events to supplement its operating budget. Each year they hold events such as a fall Bowl-a-Thon and a spring Walk-a-Thon. In a Bowl-a-Thon, each participant bowls 3 games and solicits pledges from sponsors who pledge either a specific amount per pin scored (eg: \$.02/pin) or a flat amount (\$10 no matter the participant's score), or both (eg: \$.01/pin and \$5.00). In a Walk-a-Thon, a participant solicits pledges from sponsors who pledge either a specific amount per mile walked (eg: \$.25/mile) or a flat amount (\$50 no matter the distance) or both (eg: \$.10/mile and \$15.00).

Event/Type	Date	Participant	Performance	Sponsor	Pledge	Facility
Spring Fling  Bowl-a-Thon	3/3/2008	Adam Corolla, Male, <a href="mailto:acorolla@cox.net">acorolla@cox.net</a> , 480-423-6000	456	Pete Peterson, 602-333-4444	\$0.12/pin plus \$5	Brunswick Lanes, Scottsdale, 480-555-1212
				Edna Crabapple, (none)	Flat \$15	
				Hal McTier, 480-555-2431	\$.07/pin	
				Bic Penn, 602-444-3376	\$0.10/pin plus \$25	
Bowl-a-Thon		Toyota Corolla, Female, <a href="mailto:tcorolla@cox.net">tcorolla@cox.net</a> 480-423-6000	225	Edna Crabapple, (none)	\$0.10/pin plus \$20	
				Peter Cetera, 480-843-5519	Flat \$100	
				Taylor Doose, Male, <a href="mailto:t.doose@warnerbros.com">t.doose@warnerbros.com</a> 666-666-6666	520	
Fall Fest	11/11/2007	Lance Armstrong, <a href="mailto:bikegod@hotmail.com">bikegod@hotmail.com</a> , Male, 404-333-4444	20	Edna Crabapple, (none)	\$10 plus \$1.00/mile	Papago Park, Phoenix, 602-266-1357
				John Swingline, 602-666-8891	\$.20/mile	
Walk-a-Thon		Sam Sung, Male, <a href="mailto:ss798@yahoo.com">ss798@yahoo.com</a> , 480-444-5521	6.5	Bic Penn, 602-444-3376	\$1.00/mile	
				Johnny Cash, (none)	\$.05/mile plus \$50	
				Taylor Doose, Male, <a href="mailto:t.doose@warnerbros.com">t.doose@warnerbros.com</a> 666-666-6666	12	
Roll on To Student Success	5/4/2008	Sam Sung, Male, <a href="mailto:ss798@yahoo.com">ss798@yahoo.com</a> , 480-444-5521	104	Doc Rivers, 602-543-5543	\$10/pin plus \$200	Brunswick Lanes, Scottsdale, 480-555-1212
Bowl-a-Thon		~~~~, ~~~~ , ~~~ ~~~~~	~~~	~~~, ~~~ - ~~~~	~~~ ~~~~	
Moonlite Madness	~/~/~~~~	~~~~, ~~~~ , ~~~ ~~~~~	~~~	~~~, ~~~ - ~~~~	~~~ ~~~~	Chaparral Park, Scottsdale, 480-555-3779
Walk-a-Thon						

Although the activities are different, Bowl-a-Thon and Walk-a-Thon pledge structures are identical. Each involve a performance by a participant, with sponsors who pledge either a flat amount for the performance, or an amount per activity (whether per-pin or per-mile), or both.

The first event shows data for three participants. Participant Adam Corolla bowled for a total score of 456 pins and had pledges from four sponsors. Participant Toyota Corolla a total score of 225 pins with pledges from two sponsors. Participant Doose scored 520 pins and had a single pledge.

The second event shows data for three participants. Participant Lance Armstrong walked 20 miles and had pledges from two sponsors. Sam Sung walked 6.5 miles and had pledges from two sponsors. Taylor Doose walked 12 miles and had a pledge from one sponsor.

**Design an appropriate set of 3NF tables. Document your design with an ER diagram.**