Powerlifting Database diagram

USER

int	user_id	PK
string	username	

has

SESSION

int	session_id	PK
int	user_id	FK
datetime	start_time	

contains

EXERCISE

int	exercise_id	PK
int	session_id	FK
string	name	

contains

SET

int	set_id	PK
int	exercise_id	FK
float	weight_kg	
int	set_number	
int	rest_time_s	

contains

REP

int	rep_id	PK
int	set_id	FK
float	begin_time_s	
float	end_time_s	
int	rep_number	

SENSOR

int	sensor_id	PK
string	sensor_name	
string	sensor_type	
string	location	

produces

records

is calibrated by

MEASUREMENT

int	measurement_id	PK
int	rep_id	FK
int	sensor_id	FK
datetime	timestamp	
float	ax	
float	ay	
float	az	
float	gx	
float	gy	
float	gz	

CALIBRATION

int	calibration_id	PK
int	sensor_id	FK
datetime	calibration_time	
float	offset_ax	
float	offset_ay	
float	offset_az	
float	offset_gx	
float	offset_gy	
float	offset_gz	