Домашняя работа №8

Архитектура MS SQL

Задания

1. Создайте вашу базу данных: таблицы, ограничения, ключи.

create database SWIMMING\_Comp;

use SWIMMING\_Comp

go

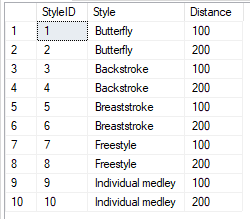
create table Styles

(StyleID int identity,

Style nvarchar(20) not null,

Distance int,

constraint PK\_Styles\_Comp primary key(StyleID))



create table Trainer

(TrainerID int identity,

FirstName nvarchar(50) not null,

LastName nvarchar(50) not null,

PassportNumber varchar(20) unique not null check(len(PassportNumber)>=5),

Gender nchar (1) check (Gender like '[mf]'),

CareerStart date,

Rank nvarchar(10),

constraint PK\_Trainer\_Swimmer primary key(TrainerID))



create table Swimmer

(SwimmerID int identity,

TrainerID int,

FirstName nvarchar(50) not null,

LastName nvarchar(50) not null,

PassportNumber nvarchar(20) unique not null check(len(PassportNumber)>=5),

Gender nchar (1) check (Gender like '[mf]'),

BirthDate date check(year(getdate())-year(BirthDate) between 18 and 35),

CareerStart date,

Rank nvarchar(10),

Сountry nvarchar(20) not null,

DopingRec bit default 0,

constraint FK\_Swimmer\_Trainer foreign key(TrainerID)

references Trainer([TrainerID]),

constraint PK\_Swimmer\_Comp primary key (SwimmerID))



create table Sponsors

(SponsID int identity,

Name nvarchar(50) not null,

constraint PK\_sponsors\_paym primary key (SponsID))



create table SwimPools

(PoolID int identity,

Name nvarchar(15),

Сountry nvarchar(20),

City nvarchar(20) not null,

Address nvarchar(40) unique not null,

constraint PK\_Pools\_Comp Primary key(PoolID))



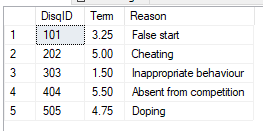
create table Disqualification

(DisqID int identity(101,101),

Term decimal(5,2) not null,

Reason nvarchar(40),

constraint PK\_Disq\_Comp primary key (DisqID))



create table Competitions

(SwimmerId int,

CompID int identity,

StyleID int,

ResTime time,

DisqID int,

CompDate date not null,

PoolID int,

constraint PK\_Comp primary key(CompID),

constraint FK\_Comp\_Swim foreign key(SwimmerId)

references [Swimmer]([SwimmerID]),

constraint FK\_Comp\_Style foreign key(StyleID)

references Styles([StyleID]),

constraint FK\_Comp\_Pools foreign key(PoolID)

references SwimPools(PoolID ),

constraint FK\_Comp\_Disq foreign key (DisqID)

references Disqualification(DisqID),

constraint CK\_Comp\_resORdisq CHECK((ResTime IS NULL AND DisqID IS NOT NULL)

OR (ResTime IS NOT NULL AND DisqID IS NULL)))



create table SponsPayments

(CompID int not null,

SponsID int not null,

Sum money not null,

PayDate date not null,

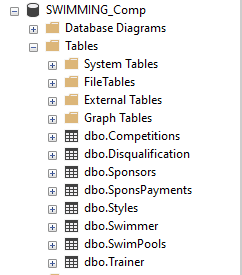
constraint FK\_Paym\_Comp foreign key(CompID)

references Competitions(CompID),

constraint FK\_Paym\_Spons foreign key(SponsID)

references Sponsors(SponsID))





2. Придумала только SELF JOIN ((

select [dbo].[MOCK\_names].[first\_name],

m2.[last\_name]

into MLNmocks

from [dbo].[MOCK\_names], [dbo].[MOCK\_names] m2