

**Звіт до лабораторної роботи №2
Тема: Створення бази даних у MySQL
Варіант : Інструмент для управління проектами**

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Мета:

Створення бази даних в середовищі Microsoft SQL Server/Oracle шляхом визначення схеми БД в утиліті Enterprise manager та шляхом імпорту даних з БД Microsoft Access.

Завдання:

Створити базу даних предметної області разом з таблицями сутностей. Встановити зв'язки між сутностями. Заповнити таблиці.

Use-case, project vision (перейти за посиланням):

https://mega.co.nz/#!PQtXBLqS!RLsUlpe2oR4dNTZMJJUqOSntrUIWUGyYtxpA4ph_ds

Виконання завдання:

1. Створення бази даних:

```
DROP DATABASE IF EXISTS boost;  
create database boost;  
use boost
```

2. Створення таблиць сутностей разом із зв'язками між ними:

```
/*  
    Users table  
*/  
create table Users(  
    UserId int auto_increment primary key not null,  
    Email char(255) not null,  
    Username char(255),  
    FirstName char(255),  
    LastName char(255),  
    Password char(255) not null, -- hashed  
    Constraint uc_username unique (Username)  
);  
  
/*  
    Projects table  
*/  
create table Projects(  
    project_id int auto_increment primary key,  
    creator int not null,  
    title char(255) not null,  
    description text(1023),  
    duedate date,  
    duetime time,  
    Constraint fk_creator foreign key (creator) references Users(UserId)  
);  
  
/*  
    Goals table  
*/
```

```

create table Goals(
    goal_id int auto_increment primary key,
    project int not null,
    title char(255) not null,
    description text(1023),
    duedate date,
    duetime time,
    Constraint fk_project foreign key (project) references Projects(project_id)
);

```

```

/*****

```

ToDoItems table

```

*****/

```

```

create table ToDoItems (
    todo_id int auto_increment primary key,
    user int,
    goal int not null,
    title char(255) not null,
    isDone int not null,
    Constraint fk_goal foreign key (goal) references Goals(goal_id)
);

```

```

/*****

```

Comments table

```

*****/

```

```

create table Comments (
    comment_id int auto_increment primary key,
    author int not null,
    project int not null,
    title char(255),
    message text(1023) not null,
    Constraint fk_author foreign key (author) references Users(UserId),
    Constraint fk_project_id foreign key (project) references Projects(project_id)
);

```

```

/*****

```

ToDoItems table

```

*****/

```

```

create table InstantMessages (
    message_id int auto_increment primary key,
    author char(255) not null,
    goal int not null,
    message text(1023),
    Constraint fk_author_id foreign key (author) references Users(Username),
    Constraint fk_goal_id foreign key (goal) references Goals(goal_id)
);

```

```

/*****
Participants table -- for many-to-many relation
*****/
create table Participants (
    user int not null,
    project int not null,
    Constraint fk_participants_user foreign key(user) references Users(UserId),
    Constraint fk_participants_project foreign key (project) references
Projects(project_id)
);

```

3. Заповнення таблиць:

```

insert into Users (Email, Username, FirstName, LastName, Password)
values('email1@gmail.com','dima','Dima','Kovalenko','1');
insert into Users (Email, Username, FirstName, LastName, Password)
values('email2@gmail.com','andriy','Andrew','Bas','1');
insert into Users (Email, Username, FirstName, LastName, Password)
values('email3@gmail.com','alex','Alex','Parienko','1');
insert into Users (Email, Username, FirstName, LastName, Password)
values('email4@gmail.com','sergey','Serhey','Onoprienko','1');
insert into Users (Email, Username, FirstName, LastName, Password)
values('email5@gmail.com','denis','Denis','Ivanets','1');
insert into Users (Email, Username, FirstName, LastName, Password)
values('email6@gmail.com','vova','Vova','Kucherenko','1');

insert into Projects (creator, title,description , duedate)
values (1,'Booster','Description of booster project','2014-06-01');
insert into Projects (creator, title,description , duedate)
values (1,'Dima\s CP','The task is just stupid.','2014-05-12');
insert into Projects (creator, title,description , duedate)
values (2,'Anyway','Parse.com example project','2014-04-30');
insert into Projects (creator, title,description)
values (2,'Locations game','Another time-wasting task.');
```

```

insert into Projects (creator, title,description)
values (2,'Pointer','Another time-wasting task.');
```

```

insert into Goals (project,title)
values(1,'Decide whther we should do it');
insert into Goals (project,title)
values(1,'Write use cases');
insert into Goals (project,title)
values(1,'Start writing code');
insert into Goals (project,title)
values(1,'Analyse progress');
insert into Goals (project,title)
values(1,'Prepare for second iteration');
```

```

insert into ToDoItems(goal, title, isDone)
values (2,'use case1',0);
insert into ToDoItems(goal, title, isDone)

```

```

        values (2,'use case2',0);
insert into ToDoItems(goal, title, isDone)
        values (2,'use case3',0);
insert into ToDoItems(goal, title, isDone)
        values (2,'use case4',1);
insert into ToDoItems(goal, title, user, isDone)
        values (2,'use case5',1,0);
insert into ToDoItems(goal, title, user, isDone)
        values (2,'use case5',2,0);
insert into ToDoItems(goal, title, user, isDone)
        values (2,'use case5',3,0);

insert into Comments(author,project,title,message)
        values(1,1,'comment1','ok guys, let\'s do something cool, Im tired of this crap @
kpi');
insert into Comments(author,project,title,message)
        values(3,1,'comment2','TODO manager, I\'ve been thinking about it for a while');
insert into Comments(author,project,title,message)
        values(2,1,'comment3','Check out Basecamp');
insert into Comments(author,project,title,message)
        values(6,1,'comment4','Basecamp is 150$ per month, our app might cost 1$
lifetime license');
insert into Comments(author,project,title,message)
        values(1,1,'comment5','Hmm, sound good, lets name our first child');
insert into Comments(author,project,title,message)
        values(2,1,'comment6','That sound gay, dude. ');
insert into Comments(author,project,title,message)
        values(5,1,'comment7','Ahhahahahahhahh xD');
insert into Comments(author,project,title,message)
        values(1,1,'comment8','shut up, im being serious');
insert into Comments(author,project,title,message)
        values(2,1,'comment9','BOOSTER, ');

insert into Participants (user, project)
        values(1,1);
insert into Participants (user, project)
        values(2,1);
insert into Participants (user, project)
        values(3,1);
insert into Participants (user, project)
        values(4,1);
insert into Participants (user, project)
        values(5,1);
insert into Participants (user, project)
        values(6,1);
insert into Participants (user, project)
        values(2,3);
insert into Participants (user, project)
        values(1,3);

```

Висновок:

Я навчився створювати бази даних та таблиці мовою SQL.