5	"The participants of the conference" consisting of two tables "List of Participants", "Themes of reports."

Control questions:

1. What is the database?
2. What do you know the main objects of a Microsoft Access database?
3. What do you know the ways to create objects
4. What types do you know of data, types of relationships?
5. What are the requirements for the creation of relationships between tables?

Practical class № 10-11
Subject: "Database management System Microsoft Access. Creating a database from multiple tables, forms, reports, queries, macros, modules.

Aim: To introduce the main database objects from the ability to build a database from **multiple tables, forms, reports, queries, macros, modules;** creating a connection between them.

Exercise 1. Create a form of *Discipline* through Wizards of forms.
1. To create a form of *Discipline:*
- In the Database window, click the *Forms* tab and click on button *Create.*
- In the *New Form* dialog box, select *Master forms.*
- Click on the icon list at the bottom of the screen and select from the displayed list table *Disciplines*
- Click on the «*OK*» button.
- Select the fields that will be present in the form. At this example will present all fields, so click on the
button [>>] .
- Click the button *Next.*
- Select the appearance of the form - *table.* Click the button «*Next*». Select required style and «*Next*».
- Set the name of the form: *Discipline.* Click the by Button «*Done*».
1. Fill in the data below.

Discipline code	disciplinename
1	Computer science
2	Mathematics
3	Physics
4	Economy

- Close the form by naming it *discipline.*

3. Fill the table *Teachers* in table mode:
- In the database window, in the Tables tab, select the Teachers table, i.e. 2 times click on the Teachers table.
- Column *Discipline Code* fill in data from the table above.

Exercise 2. Fill in the table **Students** in forms mode using **AutoShapes.**
1. To create a form *Students* follow these *steps:*
- Click on the *Forms* tab in the database window*;*
- Click «*Form Wizard*»;
- In the window select the table *Students;*
- Select AutoForm: «*Tabular*»;
- Click the «OK» button. A form for data entry was created.
2. Fill in the table with data *Students,* below, through the form.

Code Student	Full name	Group Number	Phone	Scholarship
1	AbdikarimovaSamalKorgankova	F-15	260-15-63	Yes
2	ZholdasovaSholpanShorabekovna	F-15	110-67-82	Yes
3	AktaevNyrbol	F-17	172-97-21	No
4	AlimovaSholpanAtabayishi	F-18	130-31-87	Yes
5	BaidildinaAidanaBeibitovna	Mn-12	269-53-75	Yes
6	AtanovAdilkhanKairzhanovich	F-17	234-11-63	No

2. Close the form by naming it **Students.**

Exercise 3: Create an *Evaluation* form using Design.

1. To create a form *Evaluation;*
- In the data dialog window select the tab *Forms*. Click the button *Create.*
- In the «*New Form»* dialogwindow select mode *Design.* In this window select the table **Evaluation** containing data and on its basis will be created the form and *OK.*
- Window form will be displayed inmenu *Design ->Add Existing Fields.*
- Click *Field List* on panels tools. Highlight all fields*;* hold down*the Ctrl* keywith the left *hand.* Drag and drop the mouse at **data area.**
- Close the window of list. Arrange the elements conveniently in the field.
- Set the size of the text fields of **the student code** equal to 18. To enlarge the size of element respectively the title, follow the command*Format - size - by the size of the data.* Save the form with the name of **theEvaluation.**
- Close the form.
2. In the Database window will appear **Evaluation** form. Click 2 times. Fill in Data table *Evaluation* by form

Student code	Discipline code	Evaluation
1	1	4
1	2	5
1	3	4
1	4	4
2	1	5
2	2	5
2	3	4
2	4	4
3	1	3
3	2	5
3	3	4
3	4	3
4	1	4
4	2	4
4	3	5
4	4	4
5	1	5
5	2	5
5	3	5
5	4	5
6	1	5
6	2	4
6	3	5
6	4	4

Exercise 5. Create a **simple select query** based on the table **Teachers,** which should be displayed teachers' full names.

1. To create a simple query:
- in the Database window, click the *Queries tab;*
- in the window that appears, click <Create>;
- in "Search" window, select the **A simple query** and click <OK>;
- in the window in the row *Table/queries*select the table *Teachers* (if there is not another created tables and queries, it will be there in opened list);
- in the "Available fields" move the highlight to the parameter *Surname;*
- Click the button ____ . Word *Full name* go to the window "Selected Fields";
- Click <Next>;
- In the parameter line *Set the query name,* type a new name *Positions of teachers;*
- Click the <Finish> button. A table with the results will be appeared.

2. Save the query. To save the query:

- Click the button or execute the command File, Save;
- Close the query window.

Exercise 6: Create a **select query with a <u>parameter</u> in** which there will be displayed names of teachers and their disciplines, and as a parameter specify the name of the teacher and make the request for the instructor *AbayNargiza.*

1. To create a query for a selection with the parameter:
- Create a select query for the following fields of the table *Teachers:*
"Full name", "Teaching Discipline". The request is created in the same way as in step 1;
- specify the name of the request *Disciplines;*
- Click the <Finish> button. You will see a table with the results;
- Go to the Design view by clicking on the button or execute the command **View Design;**
- in a string parameter *selection conditions* for the fields "Full name", enter a phrase (brackets also enter): *[Type Full name of teacher];*
- Run the query by clicking on the button on the toolbar or the command **Query, Run;**
  Note. In the above described way, the query is executed only in the design mode. In order to fulfill the request from another mode, it is necessary to open the *Queries tab,* select the desired request and click on the button <Open>.
- in the window type the name of *AbayNargiza* and click "OK". You will see a table with information about the instructor *AbayNargiza* - her name and teaching discipline;
- Save the query;
- Close the query window.

Exercise 7. Create a **query using the Design,** which should be displayed names, group number, discipline and evaluation by discipline:
- From the query creation list, select **Design**
- Add the desired table *(Students, Evaluation, Discipline)* choosing them and clicking by button *Add.*
- Complete the selection by clicking on the button *Close.*
- Select the field *Full name, Group Number* from the table *Student, Evaluation* from the table *Evaluation, Discipline name* from the table *Discipline.* It's enough to make a double click on the name *field.* Second option – move it at Cells request.
- In line *Selection condition* under Fields *Evaluation* Put 4 or 5.
- Click the button **! (run)** on Panels Tools for representation request.
- Save the query with the name of *Progress 1* by clicking the button *save.*

Tasks for independent work:
2. Create a database ... see the TABLE.
Create the fields yourself for these tables, select the key fields, establish the links between the tables.

Variant No.	The task
1	"Music Album", consisting of three tables "Composer", "Singers", "Songs".
2	"Polyclinic", consisting of three tables "Doctor", "Patient", and "Land".
3	"Class schedule", consisting of three tables "Class", "Teachers", and "Subjects".
4	"Computer salon", consisting of two tables "Assortment of goods", "Buyer".
5	"Participants of the conference", consisting of two tables "List of participants", "Themes of reports".

Control questions:
1. What the main objects of Microsoft database Access do you know?
2. What methods of creating objects do you know?
3. What types of data, types of relationships do you know?
4. What are the requirements for creating relationships between tables?
5. What the ways are there to create queries?
6. What types of queries do you know?
7. What operations are used when creating Query with the condition?

Practical class № 12
Subject : «Designing Web applications. Language of creating hypertext documents – HTML»
Purpose: to study the basic language HTML tags and receive initial skills building simple HTML- document
HTML stands for **H**yper **T**ext **M**arkup **L**anguage, which is the most widely used language on Web to develop web pages. HTML was created by Berners-Lee in late 1991 but "HTML 2.0" was the first standard HTML specification which was published in 1995. HTML 4.01 was a major version of HTML and it was published in late 1999. Though HTML 4.01 version is widely used but currently we are having HTML-5 version which is an extension to HTML 4.01, and this version was published in 2012.

Audience