

BCP 4.1_2

Задание 1:

The screenshot shows the SQL Server Management Studio interface. At the top, there is a toolbar with various icons. Below the toolbar, a query window titled "1_CREATE" contains the following SQL code:

```
1 • CREATE TABLE Элемент (
2     ElemID INT PRIMARY KEY AUTO_INCREMENT,
3     ElemName VARCHAR(50) NOT NULL
4 );
5
```

To the left of the code, there is a tree view under the "Navigator" tab labeled "SCHEMAS". It shows several databases: firstModel, mydb, NewDatabase (which is expanded to show Tables, Views, Stored Procedures, Functions), SHEEEEMA, simpledb, SR4, and sys.

On the right side, another query window titled "Элемент" contains the following SQL code:

```
1 • SELECT * FROM NewDatabase.Элемент;
```

Below this query window, there is a "Result Grid" showing the data from the table. The grid has two columns: "ElemID" and "ElemName". There is one row with the value "NULL" in both columns.

	ElemID	ElemName
*	NULL	NULL

Задание 2:

2_CREATE Элемент1

```
CREATE TABLE Элемент1 (
    ElemID1 INT,
    ElemID2 INT,
    ElemName VARCHAR(50) NOT NULL,
    PRIMARY KEY (ElemID1, ElemID2)
);
```

2_CREATE Элемент1 Элемент1

```
SELECT * FROM NewDatabase.Элемент1;
```

Result Grid | Filter Rows: Edit:

	ElemID1	ElemID2	ElemName
*	NULL	NULL	NULL

Этот запрос создаст таблицу "Элемент1" с тремя столбцами: ElemID1, ElemID2 и ElemName. Первичным ключом будет комбинация столбцов ElemID1 и ElemID2.

Задание 3:

3_CREATE Элементы

```
1 • CREATE TABLE Элементы (
2     ElementsID INT PRIMARY KEY AUTO_INCREMENT,
3     ElemID INT NOT NULL,
4     Comment TEXT,
5     FOREIGN KEY (ElemID) REFERENCES Элемент(ElemID)
6 );
7 |
```

3_CREATE Элементы Элементы

```
1 • SELECT * FROM NewDatabase.Элементы;
```

Result Grid | Filter Rows: Edit:

	ElementsID	ElemID	Comment
*	NUL	NUL	NUL

Задание 4:

4_CREATE Элементы × Элементы

CREATE TABLE Элементы (ElementsID INT PRIMARY KEY AUTO_INCREMENT, ElemID INT NOT NULL, Comment TEXT, CONSTRAINT fk1 FOREIGN KEY (ElemID) REFERENCES Элемент(ElemID));

4_CREATE Элементы × Элементы

SELECT * FROM NewDatabase.Элементы;

Result Grid | Filter Rows: Edit:

	ElementsID	ElemID	Comment
*	NULL	NULL	NULL

Задание 5:

5_CREATE Book x 6_CREATE BookStatus 7_CREATE BookInLib

CREATE TABLE Book (

 BookID INT PRIMARY KEY AUTO_INCREMENT,

 Title VARCHAR(255) NOT NULL,

 AuthorID INT NOT NULL,

 Genre VARCHAR(100),

 UNIQUE (Title),

 FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID)

);

5_CREATE Book 6_CREATE BookStatus x 7_CREATE BookInLib

CREATE TABLE BookStatus (

 StatusID INT PRIMARY KEY AUTO_INCREMENT,

 StatusName VARCHAR(50) NOT NULL UNIQUE

);

5_CREATE Book 6_CREATE BookStatus 7_CREATE BookInLib x

CREATE TABLE BookInLib (

 LibraryID INT,

 BookID INT,

 StatusID INT,

 CONSTRAINT pk_LibraryBook PRIMARY KEY (LibraryID, BookID),

 FOREIGN KEY (LibraryID) REFERENCES Library(LibraryID),

 FOREIGN KEY (BookID) REFERENCES Book(BookID),

 FOREIGN KEY (StatusID) REFERENCES BookStatus(StatusID)

);

5_CREATE Book 6_CREATE BookStatus 7_CREATE BookInLib Book BookStatus BookInLib

File | New | Open | Save | Print | Help | Limit to 1000 rows | Filter | Find | Replace | Options |

1 • SELECT * FROM NewDatabase.Book;

Result Grid | Filter Rows: _____ | Edit: | Export/Import: | Wrap Cell Content: |

	BookID	Title	AuthorID	Genre
*	NULL	NULL	NULL	NULL

5_CREATE Book 6_CREATE BookStatus 7_CREATE BookInLib Book BookStatus BookInLib

File | New | Open | Save | Print | Help | Limit to 1000 rows | Filter | Find | Replace | Options |

1 • SELECT * FROM NewDatabase.BookStatus;

Result Grid | Filter Rows: _____ | Edit: | Export/Import: | Wrap Cell Content: |

	StatusID	StatusName
*	NULL	NULL

5_CREATE Book 6_CREATE BookStatus 7_CREATE BookInLib Book BookStatus BookInLib x

Limit to 1000 rows

```
1 • SELECT * FROM NewDatabase.BookInLib;
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

	LibraryID	BookID	StatusID
*	NULL	NULL	NULL

Задание 6:

8_ALTER и 9_add constr x 10_drop constr

Limit to 1000 rows

```
1 • ALTER TABLE Элемент1
2 ADD COLUMN info VARCHAR(200);
3
```

8_ALTER и 9_add constr 10_drop constr x

Limit to 1000 rows

```
1 • ALTER TABLE Элемент1
2 ADD CONSTRAINT un_info UNIQUE(info);
3
```

8_ALTER и 9_add constr 10_drop constr Элемент1 x

Limit to 1000 rows

1 • `SELECT * FROM NewDatabase.Элемент1;`

Result Grid | Filter Rows: | Edit: |

	ElemID1	ElemID2	ElemName	info
*	NULL	NULL	NULL	NULL

Задание 7:

11_ALTER add x

Limit to 1000 rows

1 • `ALTER TABLE BookStatus`
2 `ADD COLUMN Comment VARCHAR(200) NOT NULL;`
3

11_ALTER add BookStatus x

1 • SELECT * FROM NewDatabase.Boo

Result Grid | Filter Rows:

	StatusID	StatusName	Comment
*	NULL	NULL	NULL

Задание 8:

12_SELECT_1 x 12_SELECT_2

CREATE TABLE NewBook (

 BookID INT PRIMARY KEY,

 Title VARCHAR(255) NOT NULL,

 AuthorID INT NOT NULL,

 Genre VARCHAR(100),

 PublishDate DATE

);

12_SELECT_1 12_SELECT_2

```
1 • INSERT INTO NewBook (BookID, Title, AuthorID, Genre, PublishDate)
2   SELECT BookID, Title, AuthorID, Genre, PublishDate
3   FROM Book
4   WHERE YEAR(PublishDate) > 2000;
5
```

SQL File 15 NewBook

```
1 • SELECT * FROM NewDatabase.NewBook;
```

Result Grid | Filter Rows: | Edit

	BookID	Title	AuthorID	Genre	PublishDate
*	NULL	NULL	NULL	NULL	NULL

В SQL Workbench нет поддержки конструкции `SELECT ... INTO ...` для создания новой таблицы на основе выборки из существующей таблицы, как в некоторых других СУБД. Вместо этого, вы можете вручную создать новую таблицу "NewBook" с нужной структурой и затем вставить в неё данные из таблицы "Book"

Задание 9:

13_DROP

```
1 • DROP TABLE NewBook;
2
```

34 12:50:04 DROP TABLE NewBook

0 row(s) affected

Задание 10:

