

## 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
```

Below the query window is a "Navigator" pane titled "SCHEMAS". It lists several databases: firstModel, mydb, NewDatabase, SHEEEEMA, simpledb, SR4, and sys. Under the "NewDatabase" schema, there is a "Tables" folder which contains a single table named "Элемент".

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

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

Below this query window is a "Result Grid" pane. It displays a single row of data from the "Элемент" table:

	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:

