

LESSON 2.3b

98-364 Database Administration Fundamentals

Create Views Using a Graphical Designer

Lesson Overview

In this lesson, you will learn:

- What is a graphical designer?
- How is T-SQL different from graphical designers?
- What is a view?
- What is a query?
- How is a view created?
- How do you create queries in Design View?

What is a graphical designer?

- A graphical designer is a largely object-oriented method of database management using drag-and-drop functions, drop-down menus, or both.
- A graphic designer, such as Jet SQL, is used in the Microsoft® Access® application to extract, manipulate, and structure data that resides in a relational database management system (RDBMS).
- Jet SQL is based largely on the ANSI SQL-92 standard, with additional extensions.

How is T-SQL different from graphical designers?

- T-SQL is a procedural programming language that uses command lines to help the user work with the database.
- Graphical designers, such as Microsoft Access, are object-oriented and use drag-and-drop functions instead of command lines.

What is a view?

- A view is a virtual table that displays the data from a selected table or tables.
- In RDMSs, a logical table (or view) is created through the specification of one or more relational operations on one or more tables.

What is a query?

- **Query (1)**—a specific set of instructions for extracting particular data.
- **Query(2)** —to extract data from a database and present it for use.

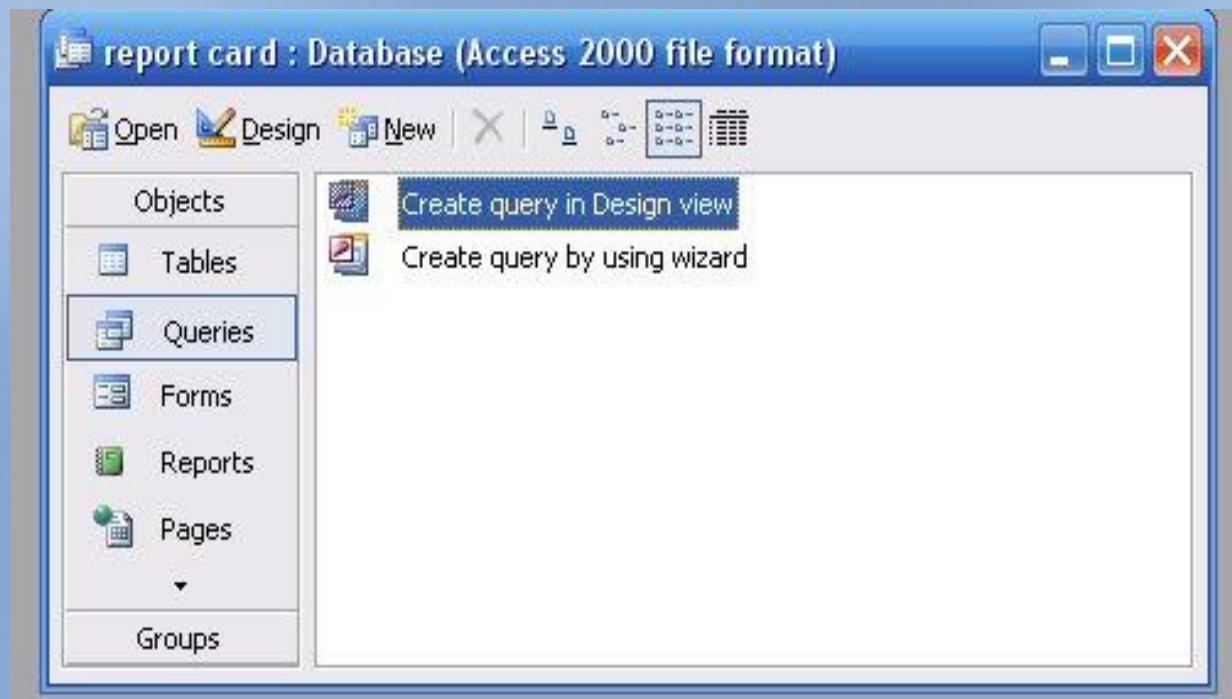
A query is a question to a table or tables within a database. The syntax of the question depends on the database language. In this lesson, we focus on graphical database queries.

How is a view created?

- A view is a SELECT query that selects data from a table, allowing you to view the data in a chosen order.
- In Access, you can use queries to select data from a table or tables or other queries. The data is limited by the definition of the query.
 - Queries are SQL commands, as follows:
 - SELECT
 - UPDATE
 - DELETE
 - Queries include clauses such as
 - WHERE
 - FROM
 - ORDER BY

How do you create queries in Design View?

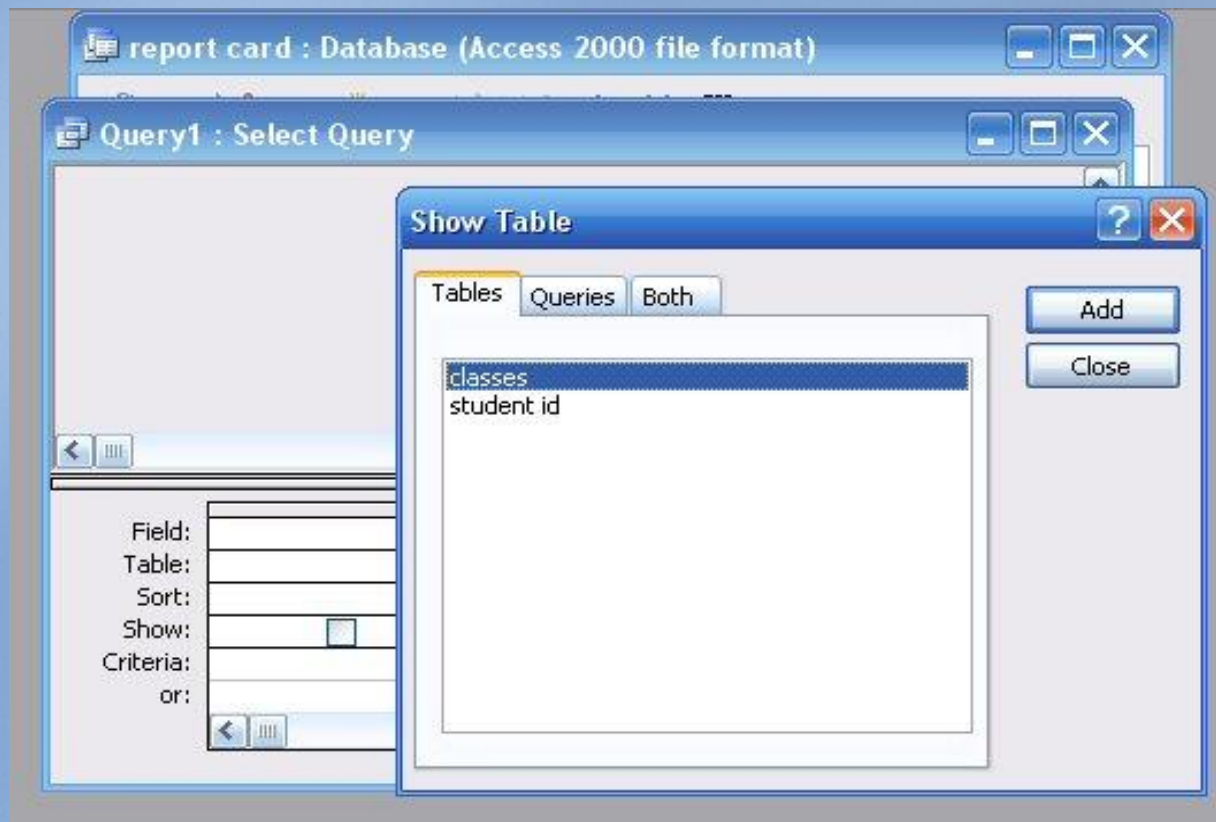
Double-click Create Query in Design View to open



LESSON 2.3b

98-364 Database Administration

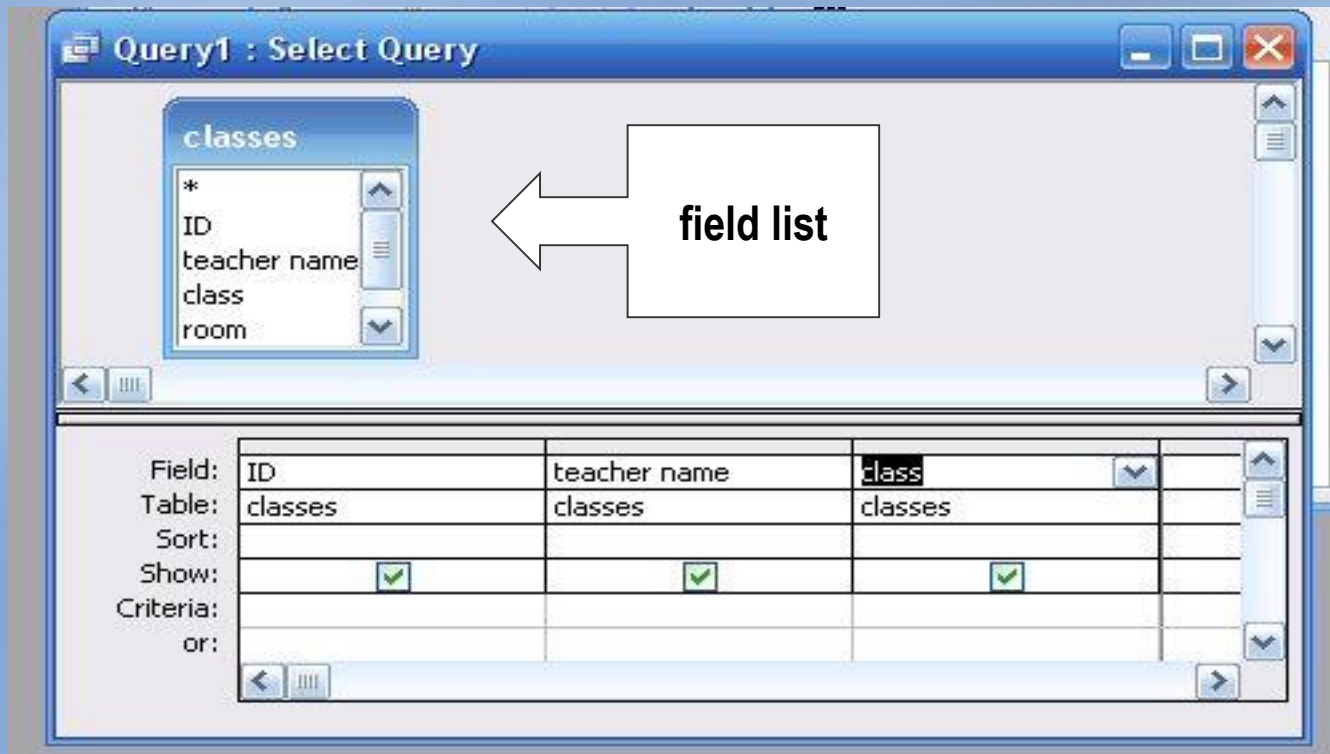
Select one or more tables from the Show Table dialog box.



LESSON 2.3b

98-364 Database Administration

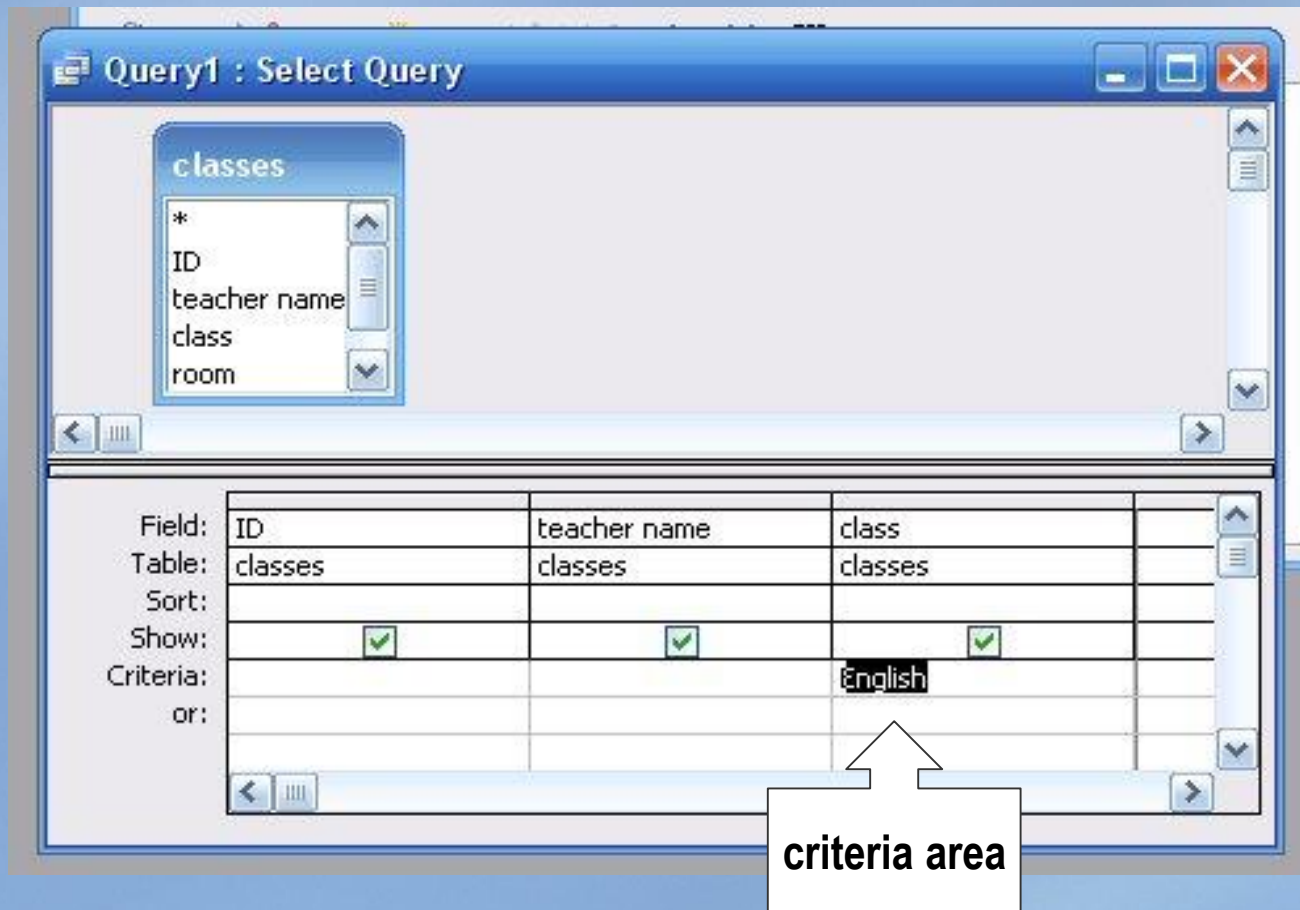
Once the table is selected, you can select fields from the field lists.



LESSON 2.3b

98-364 Database Administration

You can specify conditions in the criteria area of the design grid.

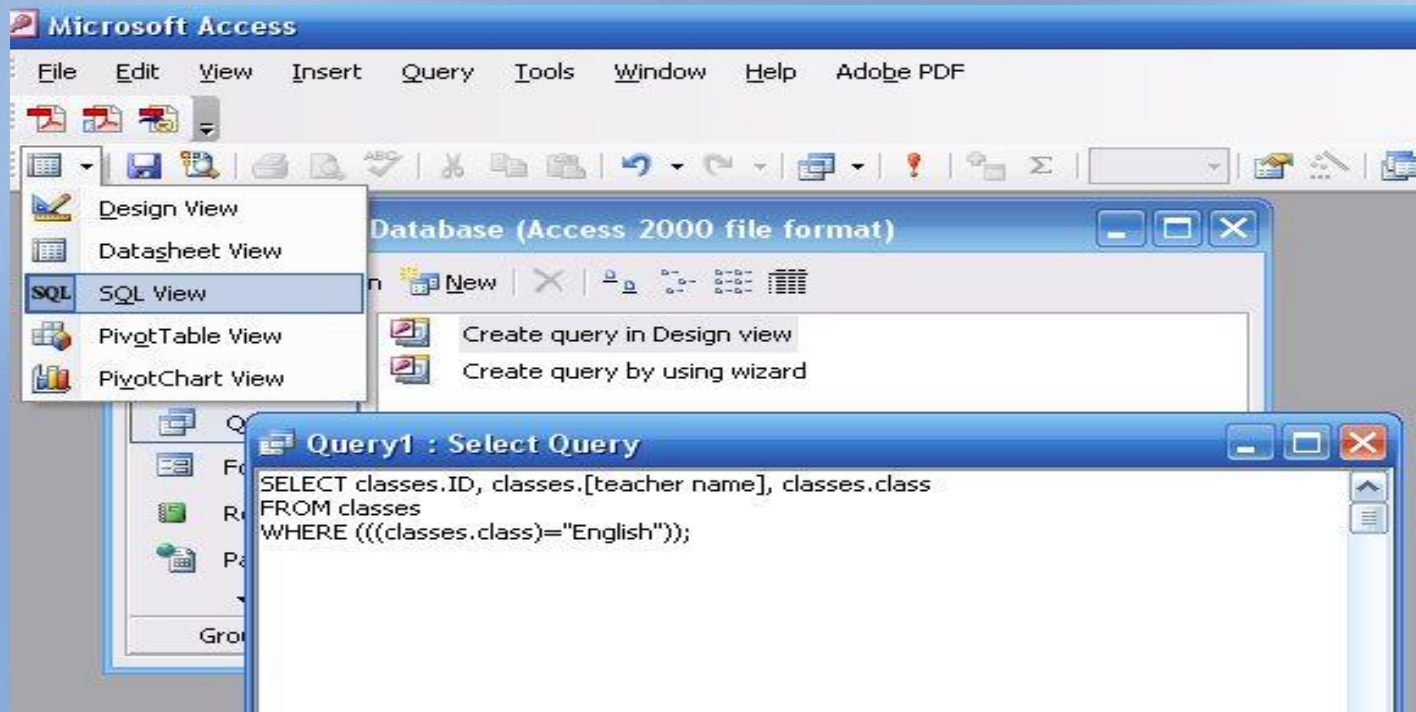


LESSON 2.3b

98-364 Database Administration

When you create a query in Design View, Access builds the necessary SQL statements behind the scenes.

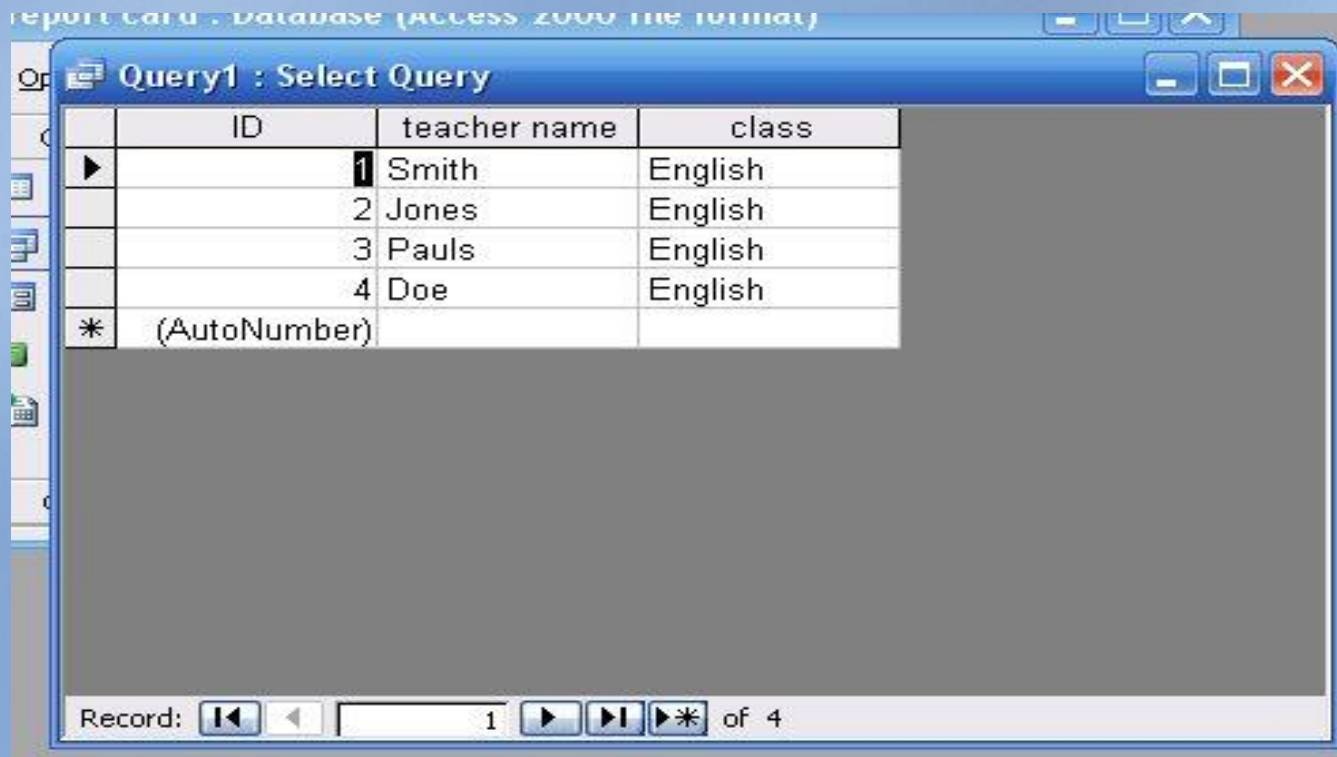
The SQL view displays the generated SQL statement, which also can be edited.



LESSON 2.3b

98-364 Database Administration

Run the query, and the result is displayed as shown here.



ID	teacher name	class
1	Smith	English
2	Jones	English
3	Pauls	English
4	Doe	English

Record: 1 of 4

Lesson Review—Discussion Questions

1. What is the relationship between tables, queries, and views?
2. How is T-SQL different from graphical designers?