



payroll : Database (Access 2007 - 2010) - Microsoft Access

File Home Create External Data Database Tools Design

View Primary Key Builder Test Validation Rules Insert Rows Delete Rows Modify Lookups Property Indexes Sheet Show/Hide Create Data Macros Rename/Delete Macro Relationships Object Dependencies Relationships

All Tables empInfo

Field Name	Data Type	Description
idno	Number	
empName	Text	
stadr	Text	
city	Text	
state	Text	
zip	Text	
yearHired	Number	
jobCode	Text	
dept	Text	
gender	Text	
maritalStatus	Text	

Note:

- No embedded spaces in my field names
- Field sizes are reasonable - not all 255

Field Properties

General Lookup

Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	No
Indexed	Yes (No Duplicates)
Smart Tags	
Text Align	General

A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.

Design view. F6 = Switch panes. F1 = Help.

Num Lock

11:06 AM 2/9/2012

The screenshot displays the Microsoft Access interface. The top ribbon is set to 'Query Tools' > 'Design'. The 'All Tables' pane on the left shows a table named 'empInfo'. The main query editor area contains the following SQL code:

```
SELECT;  
select idno, empName, dept, gender, state  
from empInfo  
where gender = "M" and state = "MA";
```

A Notepad window titled 'Untitled - Notepad' is overlaid on the query editor, containing the same SQL code. A pink dashed arrow points from the Notepad window to the 'SELECT;' line in the query editor. A blue text box with a pink arrow pointing to the 'and' in the SQL code contains the following text:

To criteria in an AND relationship.  
Note again I would write these in the editor if I was just working with Access, but since I am showing in class, I write in notepad and copy and paste to the Access editor.

The Windows taskbar at the bottom shows the system tray with the date and time: 11:07 AM, 2/9/2012.

Microsoft Access window: payroll : Database (Access 2007 - 2010) - Microsoft Access

Query Tools ribbon: Design tab

Query Design grid:

View	Run	Select	Make Table	Append Update	Crosstab	Delete	Union	Pass-Through	Data Definition	Show Table	Insert Rows	Delete Rows	Builder	Insert Columns	Delete Columns	Return:	Totals	Parameters	Property Sheet	Table Names
------	-----	--------	------------	---------------	----------	--------	-------	--------------	-----------------	------------	-------------	-------------	---------	----------------	----------------	---------	--------	------------	----------------	-------------

Left pane: All Tables, empInfo

Query Design grid: Query7, SELECT;

Notepad window: Untitled - Notepad

```

select idno, empName, dept, gender, state
from empInfo
where dept = "CI" and gender = "M" or state = "MA";

```

Handwritten notes in Notepad:

Criteria

	dept	gender	State
Or	CI	M	MA

ANDs are resolved before ORs so the two criteria around the AND get grouped and the one after the OR stands alone.

This shows a rough layout of the way this would appear in the user interface layout for queries.

Status bar: Ready

Microsoft Access window: payroll : Database (Access 2007 - 2010) - Microsoft Access

Query Tools ribbon: Design tab

Query Design grid:

Union	Insert Rows	Insert Columns	Totals	Property Sheet
Pass-Through	Delete Rows	Delete Columns	Parameters	Table Names
Data Definition	Builder	Return:	Show/Hide	

Left pane: All Tables, empInfo

Query Design grid: Query7

```
SELECT;
```

Notepad window: Untitled - Notepad

```
File Edit Format View Help
select idno, empName, dept, gender, state
from empInfo
where dept = "CI" and gender = "M" or state = "MA";
```

Handwritten annotations in green:

- A green bracket underlines the condition `dept = "CI" and gender = "M"` with the word "grouped" written below it.
- The word "AND" is written in large green letters.
- The word "alone" is written above the condition `state = "MA"`.
- The phrase "resolved before OR" is written below "AND", indicating operator precedence.

Status bar: Ready

Microsoft Access window: payroll : Database (Access 2007 - 2010) - Microsoft Access

Query Tools ribbon: Design tab

Query7 SQL: SELECT;

empInfo table structure:

- empInfo : Table
- Query1
- Query2
- Query3
- Query4
- Query5
- Query6

Untitled - Notepad window:

```

select idno, empName, dept, gender, state
from empInfo
where dept = "CI" and (gender = "M" or state = "MA");

```

Rough layout of user interface for queries.

Criteria Or

dept  
CI  
FI

gender state  
M  
MA

resolves ~~in~~ in parenthesis first

Change the order of resolution with parenthesis.

Ready

accessSQLinclass.doc [Read-Only] [Compatibility Mode] - Microsoft Word

File Home Insert Page Layout References Mailings Review View

Clipboard Font Paragraph Styles Editing

Group project.

**Question #7:** Which SQL query tests to see if condition A is true and also that either condition B or condition C are true?

**Question #8:** Which SQL query tests to see if a group of two conditions has both conditions true or a stand alone condition is true?

**Question #9:** Write the SQL query in Access to test for Course Technology as the publisher and either topic of CSS or price < 75. Test it and copy and paste the solution into the answer sheet.

**Question #10:** Write the SQL query in Access to test for Course Technology as the publisher and year published greater than 2005 or price < 25.

Page: 6 of 7 Words: 572 100% 11:16 AM 2/9/2012