## Introduction to Computer Applications

# CISY 1225 Chapter 8

# **Dr. Zahoor Khan**

Last updated: May 2014



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#### Chapter 8

• Chapter 8

- Introduction of Datasets and tables
- Selected topics
- Only exercises

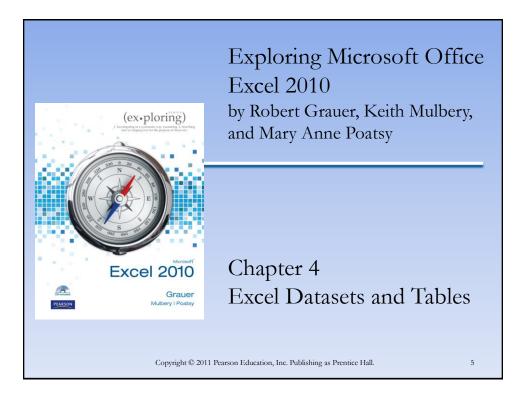
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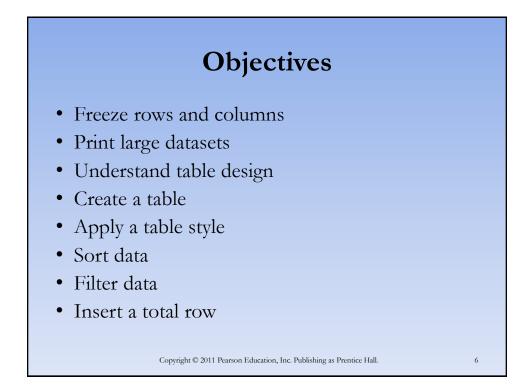
Chapter 8 Excel Datasets and Tables

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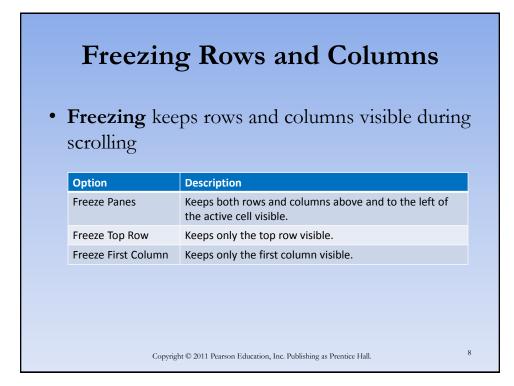
CISY1225 by Zahoor Khan, PhD

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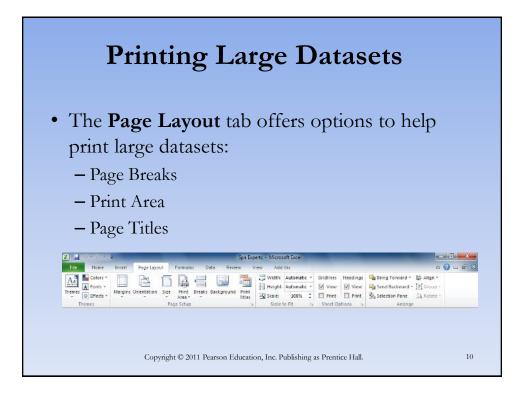


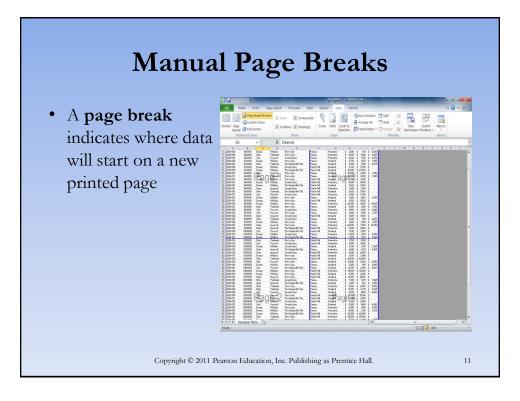


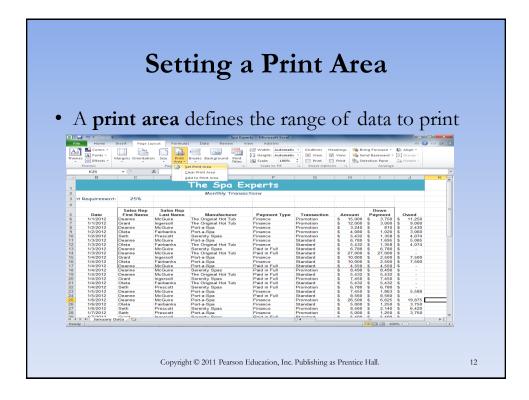
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|     | - Row and column headings | 22 2012-017<br>23 2012-018 | 1/4/2012 1/5/2012              | Seth            | Prescott<br>McGuire    | Serenity Spas                          | Paid in Full<br>Finance      | Promotion<br>Standard | \$ 6,780 \$                        | 6,780 \$             |                    |
|     | now and coranni neadings  | 24 2012-018                | 1/5/2012                       | Deante          | McGure                 | Port-a-Spa<br>Port-a-Spa               | Paid in Full                 | Standard              | \$ 7,450 \$<br>\$ 8,560 \$         | 1,863 5              | 5,588              |
|     | many samell off the same  | 25 2012-020                | 1/6/2012                       | Deante          | McGure                 | Port-a-Spa                             | Finance                      | Promotion             | \$ 26,500 \$                       | 6,625 \$             |                    |
|     | may scroll off the screen | 26 2012-021                | 1/6/2012                       | Oleta           | Fairbanks              | Port-a-Spa                             | Finance                      | Standard              | \$ 5,000 \$                        | 1,250 \$             | 3,750              |
|     | 2                         | 27 2012-022 28 2012-023    | 1/6/2012                       | Seth            | Prescatt<br>Prescatt   | Serenity Spas<br>Port-a-Spa            | Finance                      | Promotion             | \$ 8,560 \$<br>\$ 5,000 \$         | 2,140 \$             | 6,420<br>3,750     |
|     |                           | 29 2012-024                | 1/7/2012                       | Grant           | Ingersol               | Serenity Spas                          | Paid in Full                 | Standard              | \$ 5,400 \$                        | 5.400 \$             | 3,100              |
|     |                           | 30 2012-025                | 1/8/2012                       | Oleta           | Fairbanks              | Serenity Spas                          | Finance                      | Standard              | 5 3,240 \$                         | 810 5                |                    |
|     |                           | 31 2012-026<br>32 2012-027 | 1/9/2012 1/9/2012              | Deanne<br>Grant | McGuire<br>Ingersoll   | Port-a-Spa<br>Port-a-Spa               | Finance                      | Promotion             | \$ 7,400 \$<br>\$ 22,000 \$        | 1.850 \$<br>5.500 \$ |                    |
|     |                           | 33 2012-028                | 1/9/2012                       | Grant           | Ingersol               | The Original Hot Tub                   |                              | Promotion             | 5 3240 5                           | 3,240 \$             | 10,500             |
|     |                           | 34 2012-029                | 1/10/2012                      | Seth            | Prescott               | The Original Hot Tub                   | Paid in Full                 | Standard              | \$ 7,690 \$                        | 7,690 \$             |                    |
|     |                           | 35 2012-030<br>36 2012-031 | 1/10/2012 1/11/2012            | Deante          | McGuire<br>McGuire     | Serenity Spas<br>The Original Hot Tub  | Finance                      | Promotion             | \$ 6,000 \$<br>\$ 7,500 \$         | 1.500 \$             |                    |
|     |                           | 37 2012-032                | 1/11/2012                      | Oleta           | Fairbanks              | Port-a-Spa                             | Paid in Full                 | Promotion             | 5 7,500 S                          | 7.500 \$             | 0,620              |
|     |                           | 38 2012-033                | 1/11/2012                      | Seth            | Prescott               | Serenity Spas                          | Paid in Full                 | Promotion             | \$ 4,650 \$                        | 4,650 \$             |                    |
|     |                           | 39 2012-034                | 1/12/2012                      | Deanne          | McGuire                | Serenity Spas                          | Finance                      | Standard              | \$ 6,700 \$                        | 1,675 \$             |                    |
|     |                           | 40 2012-035<br>41 2012-036 | 1/13/2012<br>1/14/2012         | Grant           | Ingersoli              | The Original Hot Tub<br>Serenity Spas  | Paid in Full                 | Promotion             | \$ 6,540 \$<br>\$ 4,800 \$         | 1,635 \$<br>4,800 \$ | 4,905              |
|     |                           | 42 2012-037                | 1/15/2012                      | Deanté          | McGure                 | Port-a-Spa                             | Paid in Full                 | Standard              | 5 7,200 5                          | 7,200 5              |                    |
|     |                           | 43 2012-038                | 1/16/2012                      | Oleta           | Fairbanks              | Serenity Spas                          | Paid in Full                 | Standard              | 5 32,000 5                         | - 100 P              |                    |
|     |                           | 44 2012-039<br>45 2012-040 | 1/17/2012<br>1/18/2012         | Seth            | Prescatt<br>McGuire    | Port-a-Spa<br>Port-a-Spa               | Finance                      | Standard              | \$ 12,000 \$<br>\$ 3,200 \$        | 3,000 \$             | 5 9,000<br>5 2,400 |
|     |                           | 45 2012-041                | 1/18/2012                      | Seth            | Prescatt               | The Original Hot Tub                   |                              | Standard              | \$ 12,350 \$                       | 3,068 \$             | 9,263              |
|     |                           | 47 2012-042                | 1/16/2012                      | Deanne          | McGure                 | Port-a-Spa                             | Paid in Full                 | Promotion             | 5 18,000 5                         | 18,000 \$            |                    |
|     |                           | 48 2012-043 49 2012-044    | 1/19/2012<br>1/19/2012         | Deanne          | McGuire<br>Ingersoll   | Port-a-Spa<br>Port-a-Spa               | Paid in Full<br>Paid in Full | Standard              | \$ 4,500 \$<br>\$ 12,500 \$        | 4,500 \$             |                    |
|     |                           | 50 2012-045                | 1/20/2012                      | Oleta           | Fairbanks              | Serenity Spas                          | Finance                      | Promotion             | \$ 7,500 S                         | 1.875 \$             | 5.625              |
|     |                           | 51 2012-046                | 1/21/2012                      | Grant           | Ingersoli              | The Original Hot Tub                   | Finance                      | Standard              | \$ 3,450 \$                        | 863 \$               | 2,588              |
|     |                           | 52 2012-047<br>53 2012-048 | 1/21/2012                      | Oleta           | Fairbanks<br>Fairbanks | Port-a-Spa<br>The Original Hist Tub    | Finance                      | Promotion<br>Standard | \$ 8,000 \$<br>\$ 17,500 \$        |                      |                    |
|     |                           | 64, 20112 MAG              | 1/21/2012                      | Corth           | Partonks<br>Devende    | The Original Hot Tub<br>Seconds Second | Finance                      | Standard              | 2 000,11 6                         | 4,3/5 \$             | 13,125<br>x 900    |
|     |                           | N 4 9 H January            | Data / 52                      |                 |                        |  | 11                           |                       |                                    |                      | PI I               |
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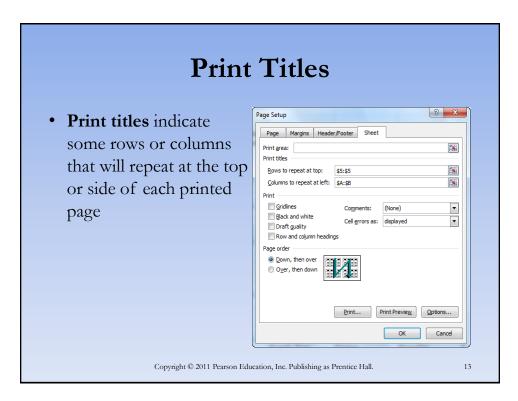


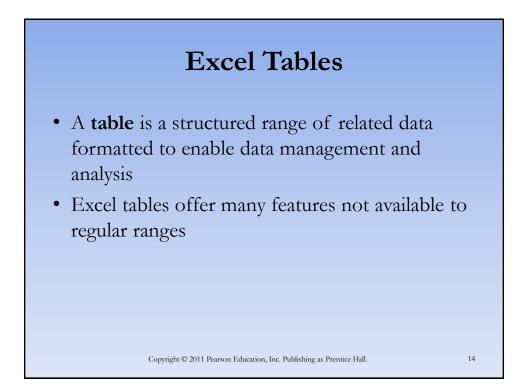
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| 5 Number<br>15 2012-010  | Date<br>1/4/2012   | Manufacturer<br>Port-a-Spa   | Payment Type<br>Finance   | Transaction<br>Standard  | Amount<br>\$ 10 000   | Payment  | Owed<br>\$ 7,500   |      |     |     |
| 16 2012-010  | 1/4/2012   | Port-a-Spa   | Finance   | Standard   | \$ 10,000<br>\$ 10,000  | \$ 2,500<br>\$ 2,500   | \$ 7,500   |      |     |     |
| 17 2012-012  | 1/4/2012   | Port-a-Spa   | Paid in Full  | Standard   | \$ 4,550  | \$ 4,550   | S -  |      |     |     |
| 18 2012-013  | 1/4/2012   | Serenity Spas  | Paid in Full  | Promotion  | \$ 8,490  | \$ 8,490   | S -  |      |     |     |
|  |  | The Original Hot Tub   | Paid in Full  |  |   |  |  |      |     |     |
| 19 2012-014  | 1/4/2012   |  |   | Standard   | \$ 5,432  | \$ 5,432   | s -  |      |     |     |
| 20 2012-015  | 1/4/2012   | Serenity Spas  | Paid in Full  | Promotion  | \$ 7,450  | \$ 7,450   | s -  |      |     |     |
| 20 2012-015<br>21 2012-016   | 1/4/2012<br>1/4/2012   | Serenity Spas<br>The Original Hot Tub  | Paid in Full<br>Paid in Full  | Promotion<br>Standard  | \$ 7,450<br>\$ 5,432  | \$ 7,450<br>\$ 5,432   |  |      |     |     |
| 20 2012-015  | 1/4/2012   | Serenity Spas  | Paid in Full  | Promotion  | \$ 7,450  | \$ 7,450<br>\$ 5,432<br>\$ 6,780   | \$ -<br>\$ -   |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019  | 1/4/2012<br>1/4/2012<br>1/4/2012<br>1/5/2012<br>1/5/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa   | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full   | Promotion<br>Standard<br>Promotion<br>Standard<br>Standard   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 7,450<br>\$ 8,560  | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560   | \$ -<br>\$ -<br>\$ 5,588<br>\$ -   |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019<br>25 2012-020   | 1/4/2012<br>1/4/2012<br>1/4/2012<br>1/5/2012<br>1/5/2012<br>1/5/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa   | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance  | Promotion<br>Standard<br>Promotion<br>Standard<br>Standard<br>Promotion  | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625   | \$ -<br>\$ -<br>\$ 5,588<br>\$ -<br>\$ 5,588<br>\$ -<br>\$ 19,875  |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019<br>25 2012-020<br>26 2012-021  | 1/4/2012<br>1/4/2012<br>1/4/2012<br>1/5/2012<br>1/5/2012<br>1/6/2012<br>1/6/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa   | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance<br>Finance   | Promotion<br>Standard<br>Promotion<br>Standard<br>Promotion<br>Standard  | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500<br>\$ 5,000   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625<br>\$ 1,250   | \$ -<br>\$ -<br>\$ 5,588<br>\$ -<br>\$ 19,875<br>\$ 3,750  |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019<br>25 2012-020<br>26 2012-021<br>27 2012-022   | 1/4/2012<br>1/4/2012<br>1/4/2012<br>1/5/2012<br>1/5/2012<br>1/5/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Serenity Spas  | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance  | Promotion<br>Standard<br>Promotion<br>Standard<br>Standard<br>Promotion  | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500<br>\$ 5,000<br>\$ 8,560   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625<br>\$ 1,250<br>\$ 2,140   | \$ -<br>\$ -<br>\$ 5,588<br>\$ -<br>\$ 19,875<br>\$ 3,750<br>\$ 6,420  |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019<br>25 2012-020<br>26 2012-021  | 1/4/2012<br>1/4/2012<br>1/6/2012<br>1/5/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa   | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance<br>Finance<br>Finance  | Promotion<br>Standard<br>Promotion<br>Standard<br>Promotion<br>Standard<br>Promotion   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500<br>\$ 5,000<br>\$ 8,560   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250   | \$ -<br>\$ 5,588<br>\$ -<br>\$ 19,875<br>\$ 3,750<br>\$ 6,420  |      |     |     |
| 20 2012-015<br>21 2012-016<br>22 2012-017<br>23 2012-018<br>24 2012-019<br>25 2012-020<br>26 2012-021<br>27 2012-021<br>28 2012-022<br>29 2012-022<br>29 2012-025  | 1/4/2012<br>1/4/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/7/2012<br>1/7/2012<br>1/7/2012                                       | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port.a-Spa<br>Port.a-Spa<br>Port.a-Spa<br>Port.a-Spa<br>Serenity Spas<br>Serenity Spas<br>Serenity Spas  | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance<br>Finance<br>Finance<br>Paid in Full<br>Finance   | Promotion<br>Standard<br>Promotion<br>Standard<br>Standard<br>Promotion<br>Standard<br>Promotion<br>Standard<br>Standard<br>Standard   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500<br>\$ 5,000<br>\$ 8,560<br>\$ 5,000<br>\$ 5,400<br>\$ 3,240   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250<br>\$ 4,250<br>\$ 2,140<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250<br>\$ 3,400<br>\$ 5,400<br>\$ 5,400<br>\$ 5,400<br>\$ 810 | \$ -<br>\$ -<br>\$ 5,688<br>\$ -<br>\$ 19,875<br>\$ 3,750<br>\$ 6,420<br>\$ 3,750<br>\$ 6,420<br>\$ 3,750<br>\$ 2,430  |      |     |     |
| 20 2012-016<br>21 2012-016<br>22 2012-017<br>23 2012-017<br>25 2012-019<br>26 2012-020<br>26 2012-020<br>26 2012-021<br>27 2012-022<br>28 2012-022<br>28 2012-022<br>29 2012-024<br>30 2012-026  | 1/4/2012<br>1/4/2012<br>1/6/2012<br>1/5/2012<br>1/6/2012<br>1/6/2012<br>1/6/2012<br>1/7/2012<br>1/7/2012<br>1/8/2012   | Serenity Spas<br>The Original Hot Tub<br>Serenity Spas<br>Port-a-Spa<br>Port-a-Spa<br>Port-a-Spa<br>Serenity Spas<br>Serenity Spas<br>Serenity Spas<br>Serenity Spas<br>Port-a-Spa   | Paid in Full<br>Paid in Full<br>Paid in Full<br>Finance<br>Finance<br>Finance<br>Finance<br>Paid in Full<br>Finance<br>Paid in Full<br>Finance<br>Finance   | Promotion<br>Standard<br>Promotion<br>Standard<br>Promotion<br>Standard<br>Promotion<br>Promotion<br>Standard<br>Standard<br>Promotion   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 7,450<br>\$ 8,560<br>\$ 26,500<br>\$ 5,000<br>\$ 8,560<br>\$ 5,000<br>\$ 5,400<br>\$ 3,240<br>\$ 7,400   | \$ 7,450<br>\$ 5,432<br>\$ 6,780<br>\$ 1,863<br>\$ 8,560<br>\$ 6,625<br>\$ 1,250<br>\$ 2,140<br>\$ 1,250<br>\$ 5,400<br>\$ 810<br>\$ 1,850   | \$ -<br>\$ -<br>\$ 5,588<br>\$ -<br>\$ 19,875<br>\$ 3,750<br>\$ 6,420<br>\$ 3,750<br>\$ -<br>\$ 2,430<br>\$ 5,550  |      |     |     |
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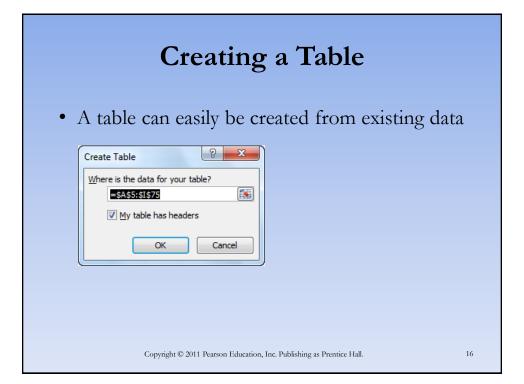


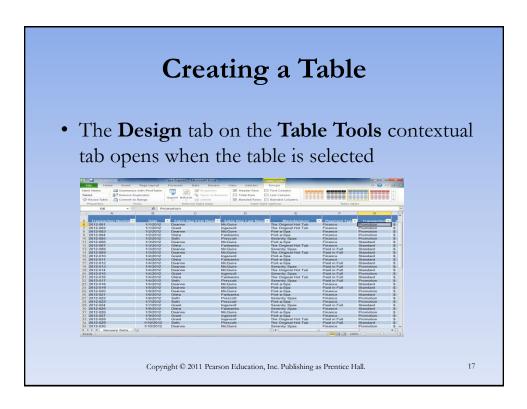
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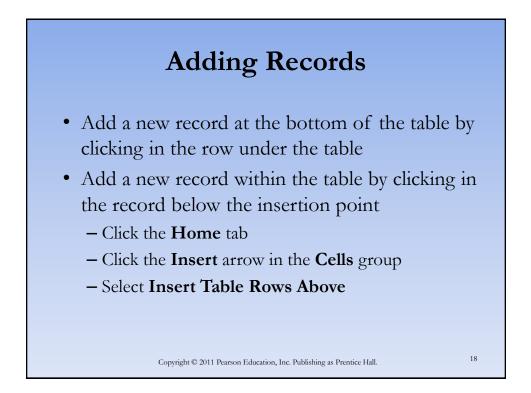


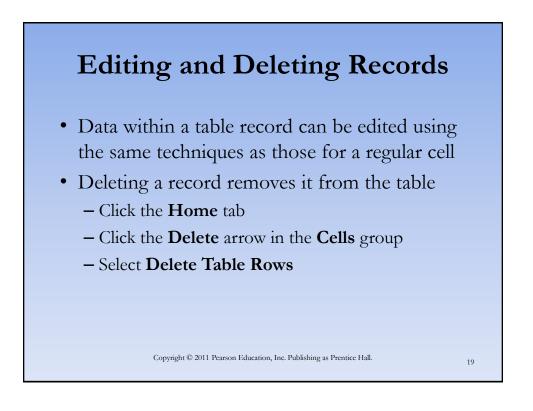
- A field is an individual piece of data
  - Field names appear in the top row as column headings
  - Field names should be short, but descriptive
- A record is a complete set of data for an entity
  - Each record is listed in a row of the table
  - Do not insert blank rows in the table

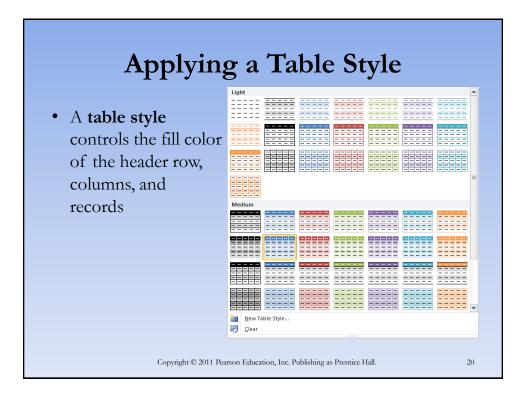
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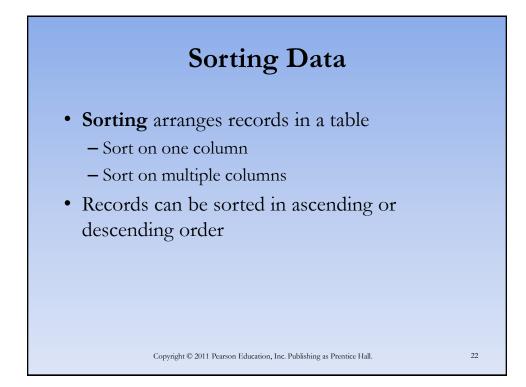
### **Table Style Options**

• The **Table Styles Options** group on the **Design** tab contains check boxes to further format the table

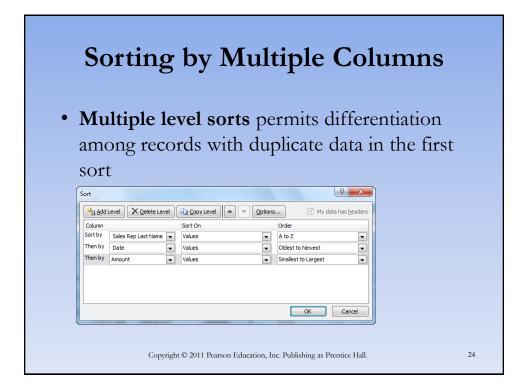
| Check Box      | Action   |
|----------------|--|
| Header Row     | Displays the header row at the top of the table.         |
| Total Row      | Displays a total row at the bottom of the table.         |
| First Column   | Applies a different format to the first column.          |
| Last Column    | Applies a different format to the last column.           |
| Banded Rows    | Displays alternate fill colors for even and odd rows.    |
| Banded Columns | Displays alternate fill colors for even and odd columns. |

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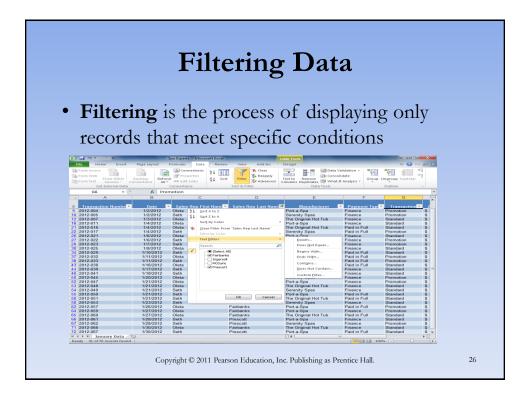
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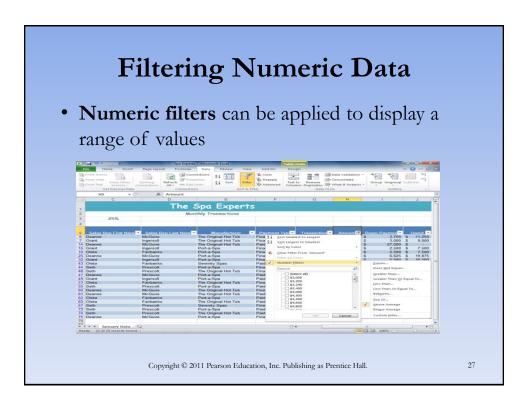


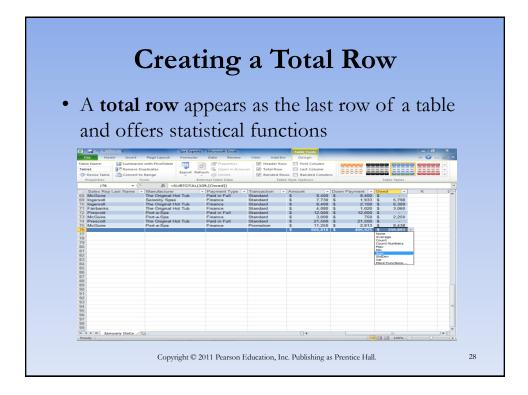
| • | • Excel offers several ways to sort a single column                     |                             |   |  |  |  |  |  |
|---|---|-----------------------------|---|--|--|--|--|--|
|   | Data type   | Options                     | Explanation                                   |  |  |  |  |  |
|   | Text  | Sort A to Z                 | Arranges data in alphabetical order.          |  |  |  |  |  |
|   |   | Sort Z to A                 | Arranges data in reverse alphabetical order.  |  |  |  |  |  |
|   | Dates   | Sort Oldest to<br>Newest    | Displays data in chronological order.         |  |  |  |  |  |
|   |   | Sort Newest to<br>Oldest    | Displays data in reverse chronological order. |  |  |  |  |  |
|   | Values  | Sort Smallest to<br>Largest | Arranges values in sequential order.          |  |  |  |  |  |
|   |   | Sort Largest to<br>Smallest | Arranges values in descending order.          |  |  |  |  |  |
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| Creating a  | Custom Sort                                     |
|---|---|
| • A custom sort can be<br>created to arrange<br>values in a customized<br>fashion | Custom Lists                                    |
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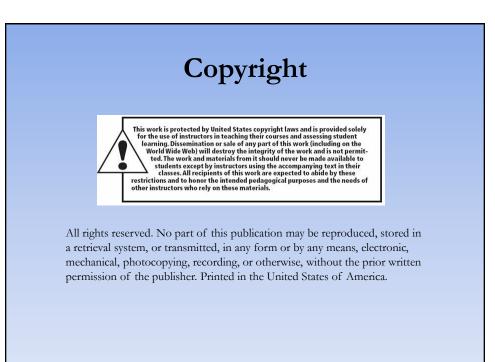
29

#### Summary

- In this chapter, you have learned to manage large datasets by freezing rows and columns and controlling print options.
- You understand table design and can create and format a table.
- You can sort and filter data in a table.

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