**BITS Corporation Module 3**

1. List the number and name of all clients.

|  |  |
| --- | --- |
| 143 | Hershey, Jarrod |
| 175 | Goduto, Sean |
| 299 | Two Crafty Cousins |
| 322 | Prichard's Pizza & Pasta |
| 363 | Salazar, Jason |
| 405 | Fisherman's Spot Shop |
| 449 | Seymour, Lindsey |
| 458 | Bonnie's Beautiful Boutique |
| 677 | Yates, Nick |
| 733 | Howler, Laura |
| 826 | Harpersburg Bank |
| 867 | MarketPoint Sales |

1. List the complete Tasks table.

| **TaskID** | **Description** | **Category** | **Price** |
| --- | --- | --- | --- |
| AC65 | Accessories | ACC | $80.00 |
| DA11 | Data recovery major | DRM | $175.00 |
| DI85 | Data recovery minor | DRM | $50.00 |
| HA63 | Hardware major | HAM | $225.00 |
| HI31 | Hardware minor | HAM | $165.00 |
| LA81 | Local area networking (LAN) | LAN | $104.00 |
| MO49 | Mobility | MOB | $65.00 |
| OT99 | Other work | OTH | $99.99 |
| PI54 | Printing issues | PRI | $50.00 |
| SA44 | Software major | SOM | $200.00 |
| SI77 | Software minor | SOM | $144.00 |
| SI91 | Security install/repair | SIR | $126.00 |
| UP38 | Upgrades | UPG | $185.00 |
| VR39 | Virus removal | VIR | $90.00 |
| WA33 | Wide area networking (WAN) | WAN | $130.00 |
| WC19 | Web connectivity | WEC | $75.00 |

1. List the number and name of every client represented by consultant 22.

|  |  |
| --- | --- |
| 299 | Two Crafty Cousins |
| 449 | Seymour, Lindsey |
| 458 | Bonnie's Beautiful Boutique |
| 733 | Howler, Laura |

|  |  |  |
| --- | --- | --- |
| 299 | Two Crafty Cousins |  |

1. List the number and name of all clients that are represented by consultant 22 and that have credit limits of $10,000.
2. List the number and name of all clients that are represented by consultant 22 or that have credit limits of $10,000.

|  |  |
| --- | --- |
| 299 | Two Crafty Cousins |
| 322 | Prichard's Pizza & Pasta |
| 449 | Seymour, Lindsey |
| 458 | Bonnie's Beautiful Boutique |
| 733 | Howler, Laura |
| 826 | Harpersburg Bank |

1. For each work order, list the order number, order date, number of the client that placed the order, and name of the client that placed the order.

|  |  |  |  |
| --- | --- | --- | --- |
| 67424 | 9/10/2018 | 322 | Prichard's Pizza & Pasta |
| 67949 | 9/10/2018 | 322 | Prichard's Pizza & Pasta |
| 68252 | 9/12/2018 | 363 | Salazar, Jason |
| 67313 | 9/7/2018 | 458 | Bonnie's Beautiful Boutique |
| 67101 | 9/6/2018 | 733 | Howler, Laura |
| 68979 | 9/17/2018 | 826 | Harpersburg Bank |
| 67838 | 9/10/2018 | 867 | MarketPoint Sales |
| 68868 | 9/14/2018 | 867 | MarketPoint Sales |

1. List the number and name of all clients represented by Sarah Allen.

|  |  |
| --- | --- |
| 322 | Prichard's Pizza & Pasta |
| 363 | Salazar, Jason |
| 677 | Yates, Nick |

1. How many clients have a credit limit of $10,000?

3

{ SELECT COUNT(\*) FROM Client WHERE (CreditLimit = 10000); }

1. Find the total of the balances for all clients represented by consultant 35.

$10,760.10

{ SELECT SUM(Balance) FROM Client WHERE (ConsltNum = '35'); }

1. List the name and remaining credit (CreditLimitBalance) for each client.

|  |  |
| --- | --- |
| Hershey, Jarrod | $595.45 |
| Goduto, Sean | $2,185.45 |
| Two Crafty Cousins | $1,646.00 |
| Prichard's Pizza & Pasta | $2,664.45 |
| Salazar, Jason | $1,599.25 |
| Fisherman's Spot Shop | $3,386.60 |
| Seymour, Lindsey | $4,442.30 |
| Bonnie's Beautiful Boutique | $3,446.20 |
| Yates, Nick | ($23.80) |
| Howler, Laura | $1,341.95 |
| Harpersburg Bank | $3,175.45 |
| MarketPoint Sales | $1,911.00 |

{ SELECT ClientName, (CreditLimit - Balance) AS CreditLimitBalance FROM Client; }

1. List all columns and all rows in the Client table. Sort the results by name.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 458 | Bonnie's Beautiful Boutique | 9565 Ridge Rd. | Tri City | FL | 32889 | $4,053.80 | $7,500.00 | 22 |
| 405 | Fisherman's Spot Shop | 49 Elwood Ave. | Harpersburg | FL | 31234 | $4,113.40 | $7,500.00 | 19 |
| 175 | Goduto, Sean | 12 Saratoga Parkway | Tri City | FL | 32889 | $2,814.55 | $5,000.00 | 19 |
| 826 | Harpersburg Bank | 65 Forrest Blvd. | Harpersburg | FL | 31234 | $6,824.55 | $10,000.00 | 19 |
| 143 | Hershey, Jarrod | 135 E. Mill Street | Easton | FL | 33998 | $1,904.55 | $2,500.00 | 19 |
| 733 | Howler, Laura | 1368 E. 1000 S. | Lizton | FL | 34344 | $3,658.05 | $5,000.00 | 22 |
| 867 | MarketPoint Sales | 826 Host St. | Easton | FL | 33998 | $3,089.00 | $5,000.00 | 19 |
| 322 | Prichard's Pizza & Pasta | 501 Air Parkway | Lizton | FL | 34344 | $7,335.55 | $10,000.00 | 35 |
| 363 | Salazar, Jason | 56473 Cherry Tree Dr. | Easton | FL | 33998 | $900.75 | $2,500.00 | 35 |
| 449 | Seymour, Lindsey | 4091 Brentwood Ln | Amo | FL | 34466 | $557.70 | $5,000.00 | 22 |
| 299 | Two Crafty Cousins | 9787 NCR 350 West | Sunland | FL | 39876 | $8,354.00 | $10,000.00 | 22 |
| 677 | Yates, Nick | 231 Day Rd. | Sunland | FL | 39876 | $2,523.80 | $2,500.00 | 35 |

{ SELECT \* FROM Client ORDER BY ClientName; }

1. List all columns and all rows in the Tasks table. Sort the results by price within category.

|  |  |  |  |
| --- | --- | --- | --- |
| AC65 | Accessories | ACC | $80.00 |
| DI85 | Data recovery minor | DRM | $50.00 |
| DA11 | Data recovery major | DRM | $175.00 |
| HI31 | Hardware minor | HAM | $165.00 |
| HA63 | Hardware major | HAM | $225.00 |
| LA81 | Local area networking (LAN) | LAN | $104.00 |
| MO49 | Mobility | MOB | $65.00 |
| OT99 | Other work | OTH | $99.99 |
| PI54 | Printing issues | PRI | $50.00 |
| SI91 | Security install/repair | SIR | $126.00 |
| SI77 | Software minor | SOM | $144.00 |
| SA44 | Software major | SOM | $200.00 |
| UP38 | Upgrades | UPG | $185.00 |
| VR39 | Virus removal | VIR | $90.00 |
| WA33 | Wide area networking (WAN) | WAN | $130.00 |
| WC19 | Web connectivity | WEC | $75.00 |

1. For each consultant, list the consultant last name, the average balance of the consultant’s clients, and the number of clients assigned to the consultant. Group the records by consultant name, and order the records by consultant name.

| **Consultant** | **Average Client Balance** | **Number of Clients** |
| --- | --- | --- |
| Allen | $3,586.70 | 3 |
| Jordan | $4,155.89 | 4 |
| Turner | $3,749.21 | 5 |

Since Tom Shields has no clients he didn’t show up in the query, but he would have an Average Client Balance of NULL. In a non-Access database I believe it would actually display that in the output. 🤔

1. Create a new table named Sept21 to contain the columns OrderNum, TaskID, Description, ScheduledDate, QuotedPrice for all rows on which the ScheduledDate is 9/21/2018.

| **Sept21** | | | | |
| --- | --- | --- | --- | --- |
| **OrderNum** | **TaskID** | **Description** | **ScheduledDate** | **QuotedPrice** |
| 67949 | PI54 | Printing issues | 9/21/2018 | $50.00 |
| 67949 | VR39 | Virus removal | 9/21/2018 | $88.00 |
| 67949 | WA33 | Wide area networking (WAN) | 9/21/2018 | $126.00 |

1. In the Sept21 table, change the description of TaskID PI54 to “Misc. Printing.”

✔

1. In the Sept21 table, add a new order. The order number is 69123. The TaskID is OT99. The scheduled date is 9/21/2018. The quoted price is $99.99. The description is Other work.

✔

| **Sept21** | | | | |
| --- | --- | --- | --- | --- |
| **OrderNum** | **TaskID** | **Description** | **ScheduledDate** | **QuotedPrice** |
| 67949 | PI54 | Misc. Printing | 9/21/2018 | $50.00 |
| 67949 | VR39 | Virus removal | 9/21/2018 | $88.00 |
| 67949 | WA33 | Wide area networking (WAN) | 9/21/2018 | $126.00 |
| 69123 | OT99 | Other work | 9/21/2018 | $99.99 |

1. There are two ways to create the query in Exercise 12. Write the SQL command that you used and then write the alternate command that also would obtain the correct result.

Original Answer: { SELECT \* FROM Tasks ORDER BY Category, Price; }

Alternative Answer: { SELECT \* FROM Tasks ORDER BY Category DESC, Price; }

This still sorts the lowest to highest price within each category, while still “grouping”, so to speak, the categories together.

1. How would you modify the query in Exercise 6 to limit retrieval only to work orders that were placed on 9/10/2018?

{… WHERE OrderDate = 9/10/2018; }