1. Assuming no other data is available, provide SQL to convert the data pictured in Table 1.A to the output pictured in Table 1.B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 1.A - database: FINANCE table: REVENUE | | | | |
|  | ACCT\_NUM | PRODUCT | MONTH | REVENUE |
|  | 9994523 | VEG | Jan | 50.00 |
|  | 9994523 | HOT DOG | Feb | 40.00 |
|  | 9994523 | VEG | Feb | 55.00 |
|  | 9994523 | COOKIE | Feb | 10.00 |
|  | 9996984 | VEG | Mar | 60.00 |
|  | 9996427 |  | Jan | 15.00 |
|  | 9993644 | HOT DOG | Feb | 35.00 |
|  | 9993644 | FRIES | Feb | 2.00 |
|  | 9993644 | HOT DOG | Mar | 40.00 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 1.B | | | | | |
|  | ACCT\_NUM | PRODUCT | PROD2 | MONTH | REVENUE |
|  | 9994523 | VEG | Vegetable | Jan | 50.00 |
|  | 9994523 | HOT DOG | Hot Dog | Feb | 40.00 |
|  | 9994523 | VEG | Vegetable | Feb | 55.00 |
|  | 9994523 | COOKIE | Cookie | Feb | 10.00 |
|  | 9996984 | VEG | Vegetable | Mar | 60.00 |
|  | 9996427 |  | Other | Jan | 15.00 |
|  | 9993644 | HOT DOG | Hot Dog | Feb | 35.00 |
|  | 9993644 | FRIES | Other | Feb | 2.00 |
|  | 9993644 | HOT DOG | Hot Dog | Mar | 40.00 |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 2.A to the output pictured in Table 2.B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 2.A - database: FINANCE table: REVENUE | | | | |
|  | ACCT\_NUM | PRODUCT | MONTH | REVENUE |
|  | 9994523 | VEG | Jan | 50.00 |
|  | 9994523 | HOT DOG | Feb | 40.00 |
|  | 9994523 | VEG | Feb | 55.00 |
|  | 9994523 | COOKIE | Feb | 10.00 |
|  | 9996984 | VEG | Mar | 60.00 |
|  | 9996427 |  | Jan | 15.00 |
|  | 9993644 | HOT DOG | Feb | 35.00 |
|  | 9993644 | FRIES | Feb | 2.00 |
|  | 9993644 | HOT DOG | Mar | 40.00 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 2.B | | | | | |
|  | ACCT\_NUM | PRODUCT | MONTH | REVENUE |  |
|  | 9994523 | HOT DOG | Feb | 40.00 |  |
|  | 9994523 | VEG | Feb | 55.00 |  |
|  | 9994523 | COOKIE | Feb | 10.00 |  |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 3.A and Table 3.B to the output pictured in Table 3.C

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 3.A - database: FINANCE table: REVENUE | | | | |
|  | ACCT\_NUM | PRODUCT | MONTH | REVENUE |
|  | 9994523 | VEG | Jan | 50.00 |
|  | 9994523 | HOT DOG | Feb | 40.00 |
|  | 9994523 | VEG | Feb | 55.00 |
|  | 9994523 | COOKIE | Feb | 10.00 |
|  | 9996984 | VEG | Mar | 60.00 |
|  | 9996427 |  | Jan | 15.00 |
|  | 9993644 | HOT DOG | Feb | 35.00 |
|  | 9993644 | FRIES | Feb | 2.00 |
|  | 9993644 | HOT DOG | Mar | 40.00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 3.B - database: FINANCE table: ACCOUNT\_GENDER | | | | |
|  | ACCT\_NUM | GENDER |  |  |
|  | 9994523 | MALE |  |  |
|  | 9996984 | FEMALE |  |  |
|  | 9996427 | FEMALE |  |  |
|  | 9993644 | MALE |  |  |
|  | 9995725 | MALE |  |  |
|  | 9993245 | FEMALE |  |  |
|  | 9993727 | FEMALE |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 3.C | | | | | |
|  | ACCT\_NUM | PRODUCT | GENDER | MONTH | REVENUE |
|  | 9994523 | VEG | MALE | Jan | 50.00 |
|  | 9994523 | HOT DOG | MALE | Feb | 40.00 |
|  | 9994523 | VEG | MALE | Feb | 55.00 |
|  | 9994523 | COOKIE | MALE | Feb | 10.00 |
|  | 9996984 | VEG | FEMALE | Mar | 60.00 |
|  | 9996427 |  | FEMALE | Jan | 15.00 |
|  | 9993644 | HOT DOG | MALE | Feb | 35.00 |
|  | 9993644 | FRIES | MALE | Feb | 2.00 |
|  | 9993644 | HOT DOG | MALE | Mar | 40.00 |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 4.A and Table 4.B to the output pictured in Table 4.C

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 4.A - database: FINANCE table: REVENUE01 | | | | |
|  | MONTH | ACCT\_NUM | PRODUCT | REVENUE |
|  | Jan | 9994523 | VEG | 50.00 |
|  | Jan | 9994523 | HOT DOG | 40.00 |
|  | Jan | 9993644 | HOT DOG | 35.00 |
|  | Jan | 9993644 | FRIES | 2.00 |
|  | Jan | 9996984 | VEG | 60.00 |
|  | Jan | 9996427 |  | 15.00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 4.B - database: FINANCE table: REVENUE02 | | | | |
|  | MONTH | ACCT\_NUM | PRODUCT | REVENUE |
|  | Feb | 9994523 | VEG | 50.00 |
|  | Feb | 9994523 | HOT DOG | 40.00 |
|  | Feb | 9993644 | HOT DOG | 35.00 |
|  | Feb | 9993644 | FRIES | 2.00 |
|  | Feb | 9996984 | VEG | 60.00 |
|  | Feb | 9996427 |  | 15.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| Table 4.C | | | |
|  | ACCT\_NUM | REVENUE\_TOTAL |  |
|  | 9993644 | 74.00 |  |
|  | 9994523 | 180.00 |  |
|  | 9996427 | 30.00 |  |
|  | 9996984 | 120.00 |  |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 5.A to the output pictured in Table 5.B

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 5.A - database: FINANCE table: WIFI-LOGIN | | | | |  |
|  | MONTH | ACCT\_NUM | LOCATION | START\_TIME | END\_TIME |
|  | Jan | 9994523 | MALL | 3 | 5 |
|  | Jan | 9994523 | MALL | 2 | 3 |
|  | Jan | 9993644 | FOOD TRUCK | 3 | 9 |
|  | Jan | 9993644 | RESTAURANT | 12 | 13 |
|  | Jan | 9996984 | CAFE | 3 | 4 |
|  | Jan | 9996427 | MALL | 8 | 9 |
|  | Feb | 9994523 | MALL | 11 | 17 |
|  | Feb | 9994523 | FOOD TRUCK | 9 | 12 |
|  | Feb | 9993644 | RESTAURANT | 3 | 9 |
|  | Feb | 9993644 | RESTAURANT | 7 | 9 |
|  | Feb | 9996984 | CAFE | 7 | 8 |
|  | Feb | 9996427 | MALL | 10 | 13 |
|  |  |  |  |  |  |
| Table 5.B | | | | |  |
|  | MONTH | LOCATION | UNIQUE\_VIEWERS | |  |
|  | Jan | MALL | 2 | |  |
|  | Jan | FOOD TRUCK | 1 | |  |
|  | Jan | RESTAURANT | 1 | |  |
|  | Jan | CAFE | 1 | |  |
|  | Feb | MALL | 2 | |  |
|  | Feb | FOOD TRUCK | 1 | |  |
|  | Feb | RESTAURANT | 1 | |  |
|  | Feb | CAFE | 1 | |  |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 6.A to the output pictured in Table 6.B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 6.A - database: FINANCE table: REVENUE01 | | | | |  |  |
|  | ACCT\_NUM | PRODUCT | Date\_local | CURRENTDAY |  |  |
|  | C | HOTDOG | 2015-04-22 | 2.37 |  |  |
|  | C | HOTDOG | 2015-04-23 | 1.52 |  |  |
|  | C | HOTDOG | 2015-04-24 | 0.28 |  |  |
|  | C | HOTDOG | 2015-04-25 | 0.62 |  |  |
|  | C | HOTDOG | 2015-04-26 | 7.73 |  |  |
|  | C | HOTDOG | 2015-04-27 | 0.25 |  |  |
|  | C | HOTDOG | 2015-04-28 | 1.38 |  |  |
|  | C | HOTDOG | 2015-04-29 | 1.72 |  |  |
|  | C | HOTDOG | 2015-04-30 | 0.10 |  |  |
|  | C | HOTDOG | 2015-05-01 | 0.30 |  |  |
|  | C | HOTDOG | 2015-05-02 | 0.63 |  |  |
|  |  |  |  |  |  |  |
| Table 6.B | | | | |  |  |
|  | ACCT\_NUM | PRODUCT | Date\_local | CURRENTDAY | PREVIOUSDAY | NEXTDAY |
|  | C | HOTDOG | 2015-04-22 | 2.37 |  | 1.52 |
|  | C | HOTDOG | 2015-04-23 | 1.52 | 2.37 | 0.28 |
|  | C | HOTDOG | 2015-04-24 | 0.28 | 1.52 | 0.62 |
|  | C | HOTDOG | 2015-04-25 | 0.62 | 0.28 | 7.73 |
|  | C | HOTDOG | 2015-04-26 | 7.73 | 0.62 | 0.25 |
|  | C | HOTDOG | 2015-04-27 | 0.25 | 7.73 | 1.38 |
|  | C | HOTDOG | 2015-04-28 | 1.38 | 0.25 | 1.72 |
|  | C | HOTDOG | 2015-04-29 | 1.72 | 1.38 | 0.10 |
|  | C | HOTDOG | 2015-04-30 | 0.10 | 1.72 | 0.30 |
|  | C | HOTDOG | 2015-05-01 | 0.30 | 0.10 | 0.63 |
|  | C | HOTDOG | 2015-05-02 | 0.63 | 0.30 |  |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 7.A to the output pictured in Table 7.B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 7.A - database: FINANCE table: REVENUE01 | | | | |
|  | ACCT\_NUM | DATE | REVENUE |  |
|  | A | 2015-04-22 | 23.70 |  |
|  | B | 2015-04-23 | 15.20 |  |
|  | C | 2015-04-24 | 2.80 |  |
|  | D | 2015-04-25 | 6.20 |  |
|  | E | 2015-04-26 | 77.30 |  |
|  | F | 2015-04-27 | 2.50 |  |
|  | G | 2015-04-28 | 13.80 |  |
|  | A | 2015-05-22 | 23.70 |  |
|  | B | 2015-05-23 | 15.20 |  |
|  | C | 2015-05-24 | 40.50 |  |
|  | D | 2015-05-25 | 6.20 |  |
|  | E | 2015-05-26 | 7.75 |  |
|  | F | 2015-05-27 | 2.50 |  |
|  | G | 2015-05-28 | 13.80 |  |
|  |  |  |  |  |
| Table 7.B | | | | |
|  | ACCT\_NUM | MONTH\_END | REVENUE | Rank |
|  | E | 2015-04-30 | 77.30 | 1 |
|  | A | 2015-04-30 | 23.70 | 2 |
|  | B | 2015-04-30 | 15.20 | 3 |
|  | C | 2015-05-31 | 40.50 | 1 |
|  | A | 2015-05-31 | 23.70 | 2 |
|  | B | 2015-05-31 | 15.20 | 3 |

1. Assuming no other data is available, provide SQL to convert the data pictured in Table 8.A AND 8.B to the output pictured in Table 8.C

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 8.A - database: SERVICE table: CALLS\_APR | | | | |
|  | ACCT\_NUM | CALL\_DATE |  |  |
|  | A | 2015-04-12 |  |  |
|  | B | 2015-04-13 |  |  |
|  | C | 2015-04-14 |  |  |
|  | D | 2015-04-15 |  |  |
|  | E | 2015-04-16 |  |  |
|  | F | 2015-04-17 |  |  |
|  | A | 2015-04-27 |  |  |
|  | B | 2015-04-28 |  |  |
|  | C | 2015-04-29 |  |  |
|  | D | 2015-04-30 |  |  |
|  | E | 2015-04-26 |  |  |
|  | F | 2015-04-27 |  |  |
|  |  |  |  |  |
| Table 8.B - database: FINANCE table: PURCHASES\_MAR | | | | |
|  | ACCT\_NUM | PURCHASE\_DATE |  |  |
|  | A | 2015-03-23 |  |  |
|  | B | 2015-03-24 |  |  |
|  | A | 2015-03-23 |  |  |
|  |  |  |  |  |
| Table 8.C |  |  |  |  |
|  | ACCT\_NUM | CALL\_DATE | PRIOR\_MONTH\_PURCHASE |  |
|  | A | 2015-04-12 | Y |  |
|  | B | 2015-04-13 | Y |  |
|  | C | 2015-04-14 | N |  |
|  | D | 2015-04-15 | N |  |
|  | E | 2015-04-16 | N |  |
|  | F | 2015-04-17 | N |  |
|  | A | 2015-04-27 | Y |  |
|  | B | 2015-04-28 | Y |  |
|  | C | 2015-04-29 | N |  |
|  | D | 2015-04-30 | N |  |
|  | E | 2015-04-26 | N |  |
|  | F | 2015-04-27 | N |  |