Week 3 Written Assignment

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**Do the Exercises for Premiere Products 1 - 20 of the Guide to MySQL textbook on page 125. The answer to each exercise should consist of the SQL code followed by the result.**

1. SELECT PART\_NUM, DESCRIPTION, PRICE

FROM PART

;

|  |  |  |
| --- | --- | --- |
| part\_num | description | price |
| AT94 | Iron | 24.95 |
| BV06 | Home Gym | 794.95 |
| CD52 | Microwave Oven | 165.00 |
| DL71 | Cordless Drill | 129.95 |
| DR93 | Gas Range | 495.00 |
| DW11 | Washer | 399.99 |
| FD21 | Stand Mixer | 159.95 |
| KL62 | Dryer | 349.95 |
| KT03 | Dishwasher | 595.00 |
| KV29 | Treadmill | 1390.00 |

1. SELECT \*

FROM ORDERS

;

|  |  |  |
| --- | --- | --- |
| ORDER\_NUM | ORDER\_DATE | CUSTOMER\_NUM |
| 21608 | 2007-10-20 | 148 |
| 21610 | 2007-10-20 | 356 |
| 21613 | 2007-10-21 | 408 |
| 21614 | 2007-10-21 | 282 |
| 21617 | 2007-10-23 | 608 |
| 21619 | 2007-10-23 | 148 |
| 21623 | 2007-10-23 | 608 |

1. SELECT CUSTOMER\_NAME

FROM CUSTOMER

WHERE CREDIT\_LIMIT <= 7500

;

|  |
| --- |
| customer\_name |
| Al's Appliance and Sport |
| Ferguson's |
| The Everything Shop |
| Lee's Sport and Appliance |
| Deerfield's Four Seasons |
| All Season |

1. SELECT ORDER\_NUM

FROM ORDERS

WHERE CUSTOMER\_NUM = 148 AND ORDER\_DATE = '2007-10-20'

;

|  |
| --- |
| order\_num |
| 21608 |

1. SELECT CUSTOMER\_NUM, CUSTOMER\_NAME

FROM CUSTOMER

WHERE REP\_NUM = 35 OR REP\_NUM = 65

;

|  |  |
| --- | --- |
| customer\_num | customer\_name |
| 282 | Brookings Direct |
| 356 | Ferguson's |
| 408 | The Everything Shop |
| 462 | Bargains Galore |
| 608 | Johnson's Department Store |
| 687 | Lee's Sport and Appliance |
| 725 | Deerfield's Four Seasons |

1. SELECT PART\_NUM, DESCRIPTION

FROM PART

WHERE CLASS != 'SG'

;

|  |  |
| --- | --- |
| part\_num | description |
| AT94 | Iron |
| CD52 | Microwave Oven |
| DL71 | Cordless Drill |
| DR93 | Gas Range |
| DW11 | Washer |
| FD21 | Stand Mixer |
| KL62 | Dryer |
| KT03 | Dishwasher |

SELECT PART\_NUM, DESCRIPTION, ON\_HAND

FROM PART

WHERE ON\_HAND BETWEEN 10 AND 25

;

|  |  |  |
| --- | --- | --- |
| part\_num | description | on\_hand |
| DL71 | Cordless Drill | 21 |
| DW11 | Washer | 12 |
| FD21 | Stand Mixer | 22 |
| KL62 | Dryer | 12 |

SELECT PART\_NUM, DESCRIPTION, ON\_HAND

FROM PART

WHERE ON\_HAND IN (SELECT ON\_HAND

FROM PART

WHERE ON\_HAND BETWEEN 10 AND 25)

;

|  |  |  |
| --- | --- | --- |
| part\_num | description | on\_hand |
| DL71 | Cordless Drill | 21 |
| DW11 | Washer | 12 |
| KL62 | Dryer | 12 |
| FD21 | Stand Mixer | 22 |

1. SELECT PART\_NUM, DESCRIPTION, (PRICE \* ON\_HAND) AS ON\_HAND\_VALUE

FROM PART

WHERE CLASS = 'AP'

;

|  |  |  |
| --- | --- | --- |
| part\_num | description | ON\_HAND\_VALUE |
| CD52 | Microwave Oven | 5280.00 |
| DR93 | Gas Range | 3960.00 |
| DW11 | Washer | 4799.88 |
| KL62 | Dryer | 4199.40 |
| KT03 | Dishwasher | 4760.00 |

1. SELECT PART\_NUM, DESCRIPTION, (PRICE \* ON\_HAND) AS ON\_HAND\_VALUE

FROM PART

WHERE (PRICE \* ON\_HAND) >= 7500

;

|  |  |  |
| --- | --- | --- |
| part\_num | description | ON\_HAND\_VALUE |
| BV06 | Home Gym | 35772.75 |
| KV29 | Treadmill | 12510.00 |

1. SELECT PART\_NUM, DESCRIPTION

FROM PART

WHERE CLASS IN ( SELECT CLASS

FROM PART

WHERE CLASS = 'AP' OR CLASS = 'SG')

;

|  |  |
| --- | --- |
| part\_num | description |
| BV06 | Home Gym |
| KV29 | Treadmill |
| CD52 | Microwave Oven |
| DR93 | Gas Range |
| DW11 | Washer |
| KL62 | Dryer |
| KT03 | Dishwasher |

1. SELECT CUSTOMER\_NUM, CUSTOMER\_NAME

FROM CUSTOMER

WHERE CUSTOMER\_NAME LIKE 'K%'

;

|  |  |
| --- | --- |
| customer\_num | customer\_name |
| 524 | Kline's |

1. SELECT \*

FROM PART

ORDER BY DESCRIPTION

;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | ON\_HAND | CLASS | WAREHOUSE | PRICE |
| DL71 | Cordless Drill | 21 | HW | 3 | 129.95 |
| KT03 | Dishwasher | 8 | AP | 3 | 595.00 |
| KL62 | Dryer | 12 | AP | 1 | 349.95 |
| DR93 | Gas Range | 8 | AP | 2 | 495.00 |
| BV06 | Home Gym | 45 | SG | 2 | 794.95 |
| AT94 | Iron | 50 | HW | 3 | 24.95 |
| CD52 | Microwave Oven | 32 | AP | 1 | 165.00 |
| FD21 | Stand Mixer | 22 | HW | 3 | 159.95 |
| KV29 | Treadmill | 9 | SG | 2 | 1390.00 |
| DW11 | Washer | 12 | AP | 3 | 399.99 |

1. SELECT \*

FROM PART

WHERE PART\_NUM IN ( SELECT PART\_NUM

FROM PART

ORDER BY PART\_NUM)

ORDER BY CLASS

;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | ON\_HAND | CLASS | WAREHOUSE | PRICE |
| CD52 | Microwave Oven | 32 | AP | 1 | 165.00 |
| DR93 | Gas Range | 8 | AP | 2 | 495.00 |
| DW11 | Washer | 12 | AP | 3 | 399.99 |
| KL62 | Dryer | 12 | AP | 1 | 349.95 |
| KT03 | Dishwasher | 8 | AP | 3 | 595.00 |
| AT94 | Iron | 50 | HW | 3 | 24.95 |
| DL71 | Cordless Drill | 21 | HW | 3 | 129.95 |
| FD21 | Stand Mixer | 22 | HW | 3 | 159.95 |
| BV06 | Home Gym | 45 | SG | 2 | 794.95 |
| KV29 | Treadmill | 9 | SG | 2 | 1390.00 |

1. SELECT COUNT(\*) AS BALANCE\_GREATER\_THAN\_CREDIT

FROM CUSTOMER

WHERE BALANCE > CREDIT\_LIMIT

;

|  |
| --- |
| Balance\_greater\_than\_credit |
| 2 |

1. SELECT SUM(BALANCE)

FROM CUSTOMER

WHERE BALANCE < CREDIT\_LIMIT AND REP\_NUM = 65

;

|  |
| --- |
| sum(balance) |
| 11303.00 |

1. SELECT PART\_NUM, DESCRIPTION, (ON\_HAND \* PRICE) AS ON\_HAND\_VALUE

FROM PART

WHERE ( SELECT AVG(ON\_HAND)

FROM PART) < ON\_HAND

;

|  |  |  |  |
| --- | --- | --- | --- |
| part\_num | description | ON\_HAND\_VALUE | on\_hand |
| AT94 | Iron | 1247.50 | 50 |
| BV06 | Home Gym | 35772.75 | 45 |
| CD52 | Microwave Oven | 5280.00 | 32 |
| FD21 | Stand Mixer | 3518.90 | 22 |

1. SELECT MAX(PRICE)

FROM PART

;

|  |
| --- |
| max(price) |
| 1390.00 |

1. SELECT PART\_NUM, DESCRIPTION

FROM PART

WHERE PRICE IN ( SELECT MAX(PRICE)

FROM PART)

;

|  |  |
| --- | --- |
| part\_num | description |
| KV29 | Treadmill |

1. SELECT REP\_NUM, SUM(BALANCE)

FROM CUSTOMER

GROUP BY REP\_NUM

ORDER BY REP\_NUM

;

|  |  |
| --- | --- |
| REP\_NUM | SUM(BALANCE) |
| 20 | 27533.00 |
| 35 | 8815.75 |
| 65 | 11303.00 |

1. SELECT REP\_NUM, SUM(BALANCE)

FROM CUSTOMER

GROUP BY REP\_NUM

HAVING SUM(BALANCE) > 10000

ORDER BY REP\_NUM

;

|  |  |
| --- | --- |
| rep\_num | sum(balance) |
| 20 | 27533.00 |
| 65 | 11303.00 |