Week 4 Written Assignment

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**Do the Exercises for Premiere Products 1 - 20 of the Guide to MySQL textbook on pages 157 - 158.**

1. SELECT ORDER\_NUM, ORDER\_DATE, CUSTOMER.CUSTOMER\_NUM, CUSTOMER\_NAME

FROM ORDERS, CUSTOMER

WHERE ORDERS.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM

;

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| --- | --- | --- | --- |
| ORDER\_NUM | ORDER\_DATE | CUSTOMER\_NUM | CUSTOMER\_NAME |
| 21608 | 2007-10-20 | 148 | Al's Appliance and Sport |
| 21610 | 2007-10-20 | 356 | Ferguson's |
| 21613 | 2007-10-21 | 408 | The Everything Shop |
| 21614 | 2007-10-21 | 282 | Brookings Direct |
| 21617 | 2007-10-23 | 608 | Johnson's Department Store |
| 21619 | 2007-10-23 | 148 | Al's Appliance and Sport |
| 21623 | 2007-10-23 | 608 | Johnson's Department Store |

1. SELECT ORDER\_NUM, CUSTOMER.CUSTOMER\_NAME, CUSTOMER.CUSTOMER\_NUM

FROM ORDERS, CUSTOMER

WHERE ORDERS.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM AND ORDER\_DATE = '2007-10-21'

;

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| --- | --- | --- |
| ORDER\_NUM | CUSTOMER\_NAME | CUSTOMER\_NUM |
| 21613 | The Everything Shop | 408 |
| 21614 | Brookings Direct | 282 |

1. SELECT ORDERS.ORDER\_NUM, ORDERS.ORDER\_DATE, PART\_NUM, NUM\_ORDERED, QUOTED\_PRICE

FROM ORDER\_LINE, ORDERS

WHERE ORDER\_LINE.ORDER\_NUM = ORDERS.ORDER\_NUM

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| --- | --- | --- | --- | --- |
| ORDER\_NUM | ORDER\_DATE | PART\_NUM | NUM\_ORDERED | QUOTED\_PRICE |
| 21608 | 2007-10-20 | AT94 | 11 | 21.95 |
| 21610 | 2007-10-20 | DR93 | 1 | 495.00 |
| 21610 | 2007-10-20 | DW11 | 1 | 399.99 |
| 21613 | 2007-10-21 | KL62 | 4 | 329.95 |
| 21614 | 2007-10-21 | KT03 | 2 | 595.00 |
| 21617 | 2007-10-23 | BV06 | 2 | 794.95 |
| 21617 | 2007-10-23 | CD52 | 4 | 150.00 |
| 21619 | 2007-10-23 | DR93 | 1 | 495.00 |
| 21623 | 2007-10-23 | KV29 | 2 | 1290.00 |

1. SELECT CUSTOMER.CUSTOMER\_NAME, ORDERS.CUSTOMER\_NUM

FROM CUSTOMER, ORDERS

WHERE ORDERS.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM AND ORDER\_DATE IN (

SELECT ORDER\_DATE

FROM ORDERS

WHERE ORDER\_DATE = '2007-10-21'

);

|  |  |
| --- | --- |
| CUSTOMER\_NAME | CUSTOMER\_NUM |
| The Everything Shop | 408 |
| Brookings Direct | 282 |

1. SELECT CUSTOMER.CUSTOMER\_NAME, ORDERS.CUSTOMER\_NUM

FROM CUSTOMER, ORDERS

WHERE ORDERS.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM AND EXISTS (

SELECT ORDER\_DATE

FROM ORDERS

) AND ORDERS.ORDER\_DATE = '2007-10-21'

;

|  |  |
| --- | --- |
| CUSTOMER\_NAME | CUSTOMER\_NUM |
| The Everything Shop | 408 |
| Brookings Direct | 282 |

1. SELECT DISTINCT O.CUSTOMER\_NUM, C.CUSTOMER\_NAME

FROM ORDERS AS O, CUSTOMER AS C

WHERE O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND ORDER\_DATE NOT IN (

SELECT ORDER\_DATE

FROM ORDERS

WHERE ORDER\_DATE = '2007-10-21'

);

|  |  |
| --- | --- |
| CUSTOMER\_NUM | CUSTOMER\_NAME |
| 148 | Al's Appliance and Sport |
| 356 | Ferguson's |
| 608 | Johnson's Department Store |

1. SELECT OL.ORDER\_NUM, O.ORDER\_DATE, P.PART\_NUM, P.DESCRIPTION, P.CLASS

FROM ORDERS AS O, PART AS P, ORDER\_LINE AS OL

WHERE OL.ORDER\_NUM = O.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM

;

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| --- | --- | --- | --- | --- |
| ORDER\_NUM | ORDER\_DATE | PART\_NUM | DESCRIPTION | CLASS |
| 21608 | 2007-10-20 | AT94 | Iron | HW |
| 21610 | 2007-10-20 | DR93 | Gas Range | AP |
| 21610 | 2007-10-20 | DW11 | Washer | AP |
| 21613 | 2007-10-21 | KL62 | Dryer | AP |
| 21614 | 2007-10-21 | KT03 | Dishwasher | AP |
| 21617 | 2007-10-23 | BV06 | Home Gym | SG |
| 21617 | 2007-10-23 | CD52 | Microwave Oven | AP |
| 21619 | 2007-10-23 | DR93 | Gas Range | AP |
| 21623 | 2007-10-23 | KV29 | Treadmill | SG |

1. SELECT OL.ORDER\_NUM, O.ORDER\_DATE, P.PART\_NUM, P.DESCRIPTION, P.CLASS

FROM ORDERS AS O, PART AS P, ORDER\_LINE AS OL

WHERE OL.ORDER\_NUM = O.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM

ORDER BY CLASS, ORDER\_NUM

;

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| --- | --- | --- | --- | --- |
| ORDER\_NUM | ORDER\_DATE | PART\_NUM | DESCRIPTION | CLASS |
| 21610 | 2007-10-20 | DR93 | Gas Range | AP |
| 21610 | 2007-10-20 | DW11 | Washer | AP |
| 21613 | 2007-10-21 | KL62 | Dryer | AP |
| 21614 | 2007-10-21 | KT03 | Dishwasher | AP |
| 21617 | 2007-10-23 | CD52 | Microwave Oven | AP |
| 21619 | 2007-10-23 | DR93 | Gas Range | AP |
| 21608 | 2007-10-20 | AT94 | Iron | HW |
| 21617 | 2007-10-23 | BV06 | Home Gym | SG |
| 21623 | 2007-10-23 | KV29 | Treadmill | SG |

1. SELECT DISTINCT REP\_NUM, LAST\_NAME, FIRST\_NAME

FROM REP

WHERE REP\_NUM IN (

SELECT DISTINCT REP.REP\_NUM

FROM CUSTOMER, REP

WHERE CUSTOMER.REP\_NUM = REP.REP\_NUM AND CREDIT\_LIMIT = 5000

);

|  |  |  |
| --- | --- | --- |
| REP\_NUM | LAST\_NAME | FIRST\_NAME |
| 35 | Hull | Richard |

1. SELECT DISTINCT R.REP\_NUM, R.LAST\_NAME, R.FIRST\_NAME

FROM REP AS R, CUSTOMER AS C

WHERE C.REP\_NUM = R.REP\_NUM AND C.CREDIT\_LIMIT = 5000

;

|  |  |  |
| --- | --- | --- |
| REP\_NUM | LAST\_NAME | FIRST\_NAME |
| 35 | Hull | Richard |

1. SELECT C.CUSTOMER\_NUM, C.CUSTOMER\_NAME

FROM CUSTOMER AS C, ORDER\_LINE AS OL, PART AS P, ORDERS AS O

WHERE OL.PART\_NUM = P.PART\_NUM AND O.ORDER\_NUM = OL.ORDER\_NUM AND O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND P.DESCRIPTION = 'Gas Range'

;

|  |  |
| --- | --- |
| CUSTOMER\_NUM | CUSTOMER\_NAME |
| 356 | Ferguson's |
| 148 | Al's Appliance and Sport |

1. SELECT P1.PART\_NUM, P1.DESCRIPTION, P2.PART\_NUM, P2.DESCRIPTION, P2.CLASS

FROM PART AS P1, PART AS P2

WHERE P1.CLASS = P2.CLASS AND P1.PART\_NUM < P2.PART\_NUM

ORDER BY CLASS, P1.PART\_NUM, P2.PART\_NUM

;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | PART\_NUM | DESCRIPTION | CLASS |
| CD52 | Microwave Oven | DR93 | Gas Range | AP |
| CD52 | Microwave Oven | DW11 | Washer | AP |
| CD52 | Microwave Oven | KL62 | Dryer | AP |
| CD52 | Microwave Oven | KT03 | Dishwasher | AP |
| DR93 | Gas Range | DW11 | Washer | AP |
| DR93 | Gas Range | KL62 | Dryer | AP |
| DR93 | Gas Range | KT03 | Dishwasher | AP |
| DW11 | Washer | KL62 | Dryer | AP |
| DW11 | Washer | KT03 | Dishwasher | AP |
| KL62 | Dryer | KT03 | Dishwasher | AP |
| AT94 | Iron | DL71 | Cordless Drill | HW |
| AT94 | Iron | FD21 | Stand Mixer | HW |
| DL71 | Cordless Drill | FD21 | Stand Mixer | HW |
| BV06 | Home Gym | KV29 | Treadmill | SG |

1. SELECT O.ORDER\_NUM, O.ORDER\_DATE

FROM ORDERS AS O, CUSTOMER AS C

WHERE O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND CUSTOMER\_NAME = 'Johnson''s Department Store'

;

|  |  |
| --- | --- |
| ORDER\_NUM | ORDER\_DATE |
| 21617 | 2007-10-23 |
| 21623 | 2007-10-23 |

1. SELECT O.ORDER\_NUM, O.ORDER\_DATE

FROM ORDERS AS O, ORDER\_LINE AS OL, PART AS P

WHERE O.ORDER\_NUM = OL.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM AND P.DESCRIPTION = 'Iron'

;

|  |  |
| --- | --- |
| ORDER\_NUM | ORDER\_DATE |
| 21608 | 2007-10-20 |

1. SELECT DISTINCT O.ORDER\_NUM, O.ORDER\_DATE

FROM ORDERS AS O, ORDER\_LINE AS OL, PART AS P, CUSTOMER AS C

WHERE O.ORDER\_NUM = OL.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM AND O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND (P.DESCRIPTION = 'Gas Range' OR C.CUSTOMER\_NAME = 'Johnson''s Department Store')

;

|  |  |
| --- | --- |
| ORDER\_NUM | ORDER\_DATE |
| 21610 | 2007-10-20 |
| 21617 | 2007-10-23 |
| 21619 | 2007-10-23 |
| 21623 | 2007-10-23 |

1. SELECT DISTINCT O.ORDER\_NUM, O.ORDER\_DATE

FROM ORDERS AS O, ORDER\_LINE AS OL, PART AS P, CUSTOMER AS C

WHERE O.ORDER\_NUM = OL.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM AND O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND P.DESCRIPTION = 'Gas Range' AND C.CUSTOMER\_NAME = 'Johnson''s Department Store'

;

|  |  |
| --- | --- |
| ORDER\_NUM | ORDER\_DATE |

1. SELECT DISTINCT O.ORDER\_NUM, O.ORDER\_DATE

FROM ORDERS AS O, ORDER\_LINE AS OL, PART AS P, CUSTOMER AS C

WHERE O.ORDER\_NUM = OL.ORDER\_NUM AND P.PART\_NUM = OL.PART\_NUM AND O.CUSTOMER\_NUM = C.CUSTOMER\_NUM AND P.DESCRIPTION != 'Gas Range' AND C.CUSTOMER\_NAME = 'Johnson''s Department Store'

;

|  |  |
| --- | --- |
| ORDER\_NUM | ORDER\_DATE |
| 21617 | 2007-10-23 |
| 21623 | 2007-10-23 |

1. SELECT P.PART\_NUM, P.DESCRIPTION, P.PRICE, P.CLASS

FROM PART AS P

WHERE P.PRICE > ALL (

SELECT PRICE

FROM PART

WHERE CLASS = 'AP'

);

|  |  |  |  |
| --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | PRICE | CLASS |
| BV06 | Home Gym | 794.95 | SG |
| KV29 | Treadmill | 1390.00 | SG |

1. SELECT P.PART\_NUM, P.DESCRIPTION, P.PRICE, P.CLASS

FROM PART AS P

WHERE P.PRICE > ANY (

SELECT PRICE

FROM PART

WHERE CLASS = 'AP'

);

|  |  |  |  |
| --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | PRICE | CLASS |
| BV06 | Home Gym | 794.95 | SG |
| DR93 | Gas Range | 495.00 | AP |
| DW11 | Washer | 399.99 | AP |
| KL62 | Dryer | 349.95 | AP |
| KT03 | Dishwasher | 595.00 | AP |
| KV29 | Treadmill | 1390.00 | SG |

This command answers the question “Which parts have a price greater than any part in the class AP?” or “Which parts have a price greater than the lowest priced part in the class AP?”.

1. SELECT PART.PART\_NUM, PART.DESCRIPTION, PART.ON\_HAND, ORDER\_LINE.ORDER\_NUM, ORDER\_LINE.NUM\_ORDERED

FROM PART

LEFT JOIN ORDER\_LINE

ON PART.PART\_NUM = ORDER\_LINE.PART\_NUM

ORDER BY PART.PART\_NUM

;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PART\_NUM | DESCRIPTION | ON\_HAND | ORDER\_NUM | NUM\_ORDERED |
| AT94 | Iron | 50 | 21608 | 11 |
| BV06 | Home Gym | 45 | 21617 | 2 |
| CD52 | Microwave Oven | 32 | 21617 | 4 |
| DL71 | Cordless Drill | 21 | NULL | NULL |
| DR93 | Gas Range | 8 | 21619 | 1 |
| DR93 | Gas Range | 8 | 21610 | 1 |
| DW11 | Washer | 12 | 21610 | 1 |
| FD21 | Stand Mixer | 22 | NULL | NULL |
| KL62 | Dryer | 12 | 21613 | 4 |
| KT03 | Dishwasher | 8 | 21614 | 2 |
| KV29 | Treadmill | 9 | 21623 | 2 |