**RETRIEVING DATA FROM MULTIPLE TABLES (JOINS)**

**EXERCISES**

1.             Display a listing of the names and credit limits of all customers with the order number and date of all orders they have placed since (and including) 1st January 2005.   Arrange the output by customer name then order date.

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **CREDITLIMIT** | **ORDID** | **ORDERDATE** |
| EVERY MOUNTAIN | 10000 | 612 | 2005-01-15 |
| EVERY MOUNTAIN | 10000 | 619 | 2005-02-22 |
| JOCKSPORTS | 5000 | 620 | 2005-03-12 |
| JOCKSPORTS | 5000 | 621 | 2005-03-15 |
| JUST TENNIS | 3000 | 616 | 2005-02-03 |
| K + T SPORTS | 5000 | 617 | 2005-02-05 |
| NORTH WOODS HEALTH AND FITNESS SUPPLY CENTRE | 8000 | 613 | 2005-02-01 |
| TKB SPORT SHOP | 10000 | 610 | 2005-01-07 |
| VOLLEYRITE | 7000 | 611 | 2005-01-11 |
| VOLLEYRITE | 7000 | 614 | 2005-02-01 |
| VOLLEYRITE | 7000 | 618 | 2005-02-15 |
| WOMENS SPORTS | 10000 | 615 | 2005-02-01 |

2.        Display the name, area and credit limit of all customers together with the name of their sales rep with column heading “Rep”. Their sales rep name is stored in the ename column of the emp table.  Output should be in sales rep name then customer name order.

|  |  |  |  |
| --- | --- | --- | --- |
| **Rep** | **NAME** | **AREA** | **CREDITLIMIT** |
| ALLEN | EVERY MOUNTAIN | OXON | 10000 |
| ALLEN | WOMENS SPORTS | AVON | 10000 |
| MARTIN | TKB SPORT SHOP | HANT | 10000 |
| MARTIN | VOLLEYRITE | AVON | 7000 |
| TURNER | JOCKSPORTS | AVON | 5000 |
| TURNER | K + T SPORTS | HANT | 5000 |
| TURNER | NORTH WOODS HEALTH AND FITNESS SUPPLY CENTRE | AVON | 8000 |
| WARD | JUST TENNIS | HANT | 3000 |
| WARD | SHAPE UP | OXON | 6000 |

3a. Display the following details for all products. The current price is stored in the stdprice column in the price table where the enddate is NULL.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PRODID** | **DESCRIPTION** | **STARTDATE** | **CURRENT PRICE** | **ENDDATE** |
| 100860 | ACE TENNIS RACKET I | 2005-06-01 | 37 | NULL |
| 100861 | ACE TENNIS RACKET II | 2005-06-01 | 47 | NULL |
| 100870 | ACE TENNIS BALSS-3-PACK | 2005-01-01 | 3 | NULL |
| 100871 | ACE TENNIS BALLS-6-PACK | 2005-01-01 | 5.7 | NULL |
| 100890 | ACE TENNIS NET | 2004-01-01 | 58 | NULL |
| 101860 | SP TENNIS RACKET | 2004-12-19 | 25 | NULL |
| 101863 | SP JUNIOR RACKET | 2004-02-15 | 12.5 | NULL |
| 102130 | RH: “GUIDE TO TENNIS” | 2004-04-18 | 3.4 | NULL |
| 200376 | SB ENERGY BAR 6-PACK | 2004-02-02 | 2.9 | NULL |
| 200380 | SB VITA SNACK 6-PACK | 2003-11-15 | 4 | NULL |

3b. Display the same details as question 3a but format the Current Price with 2 decimal places prefixed with a £. Hint: Look up the SQLite printf() function.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PRODID** | **DESCRIPTION** | **STARTDATE** | **CURRENT PRICE** | **ENDDATE** |
| 100860 | ACE TENNIS RACKET I | 2005-06-01 | £37.00 | NULL |
| 100861 | ACE TENNIS RACKET II | 2005-06-01 | £47.00 | NULL |
| 100870 | ACE TENNIS BALSS-3-PACK | 2005-01-01 | £3.00 | NULL |
| 100871 | ACE TENNIS BALLS-6-PACK | 2005-01-01 | £5.70 | NULL |
| 100890 | ACE TENNIS NET | 2004-01-01 | £58.00 | NULL |
| 101860 | SP TENNIS RACKET | 2004-12-19 | £25.00 | NULL |
| 101863 | SP JUNIOR RACKET | 2004-02-15 | £12.50 | NULL |
| 102130 | RH: “GUIDE TO TENNIS” | 2004-04-18 | £3.40 | NULL |
| 200376 | SB ENERGY BAR 6-PACK | 2004-02-02 | £2.90 | NULL |
| 200380 | SB VITA SNACK 6-PACK | 2003-11-15 | £4.00 | NULL |

4.   Display the following details in relation to each item in order number 612 including the product description from the product table.

|  |  |  |  |
| --- | --- | --- | --- |
| **ORDID** | **ITEMID** | **PRODID** | **DESCRIP** |
| 612 | 1 | 100860 | ACE TENNIS RACKET I |
| 612 | 2 | 100861 | ACE TENNIS RACKET II |
| 612 | 3 | 101863 | SP JUNIOR RACKET |
| 612 | 4 | 100871 | ACE TENNIS BALLS-6 PACK |

5.         Display the following details for orders handled by sales rep 'ALLEN' since (and including) 1st January 2005.

|  |  |  |  |
| --- | --- | --- | --- |
| **Rep** | **NAME** | **ORDID** | **ORDERDATE** |
| ALLEN | EVERY MOUNTAIN | 612 | 2005-01-15 |
| ALLEN | EVERY MOUNTAIN | 619 | 2005-02-22 |
| ALLEN | WOMENS SPORTS | 615 | 2005-02-01 |

6.      Join all the relevant tables (five of them) together to get the following details for order number 612

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Rep** | **Customer** | **ORDERDATE** | **ORDID** | **ITEMID** | **PRODID** | **DESCRIP** |
| ALLEN | EVERY MOUNTAIN | 2005-01-15 | 612 | 1 | 100860 | ACE TENNIS RACKET I |
| ALLEN | EVERY MOUNTAIN | 2005-01-15 | 612 | 2 | 100861 | ACE TENNIS RACKET II |
| ALLEN | EVERY MOUNTAIN | 2005-01-15 | 612 | 3 | 101863 | SP JUNIOR RACKET |
| ALLEN | EVERY MOUNTAIN | 2005-01-15 | 612 | 4 | 100871 | ACE TENNIS BALLS-6 PACK |

7.      Display the following details of deliveries for all items in order number 612 (watch out for the compound foreign key between delivered\_item and item).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ORDID** | **ITEMID** | **QTY ORDERED** | **DELID** | **QTY DELIVERED** |
| 612 | 1 | 100 | 100008 | 75 |
| 612 | 1 | 100 | 100009 | 25 |
| 612 | 2 | 20 | 100008 | 20 |
| 612 | 3 | 150 | 100008 | 100 |
| 612 | 3 | 150 | 100009 | 50 |
| 612 | 4 | 100 | 100008 | 100 |

8.      Display the same details plus the delivery date (from delivery table).  Order the output by itemid then deliverydate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ORDID** | **ITEMID** | **QTY ORDERED** | **DELID** | **QTY DELIVERED** | **DELIVERY DATE** |
| 612 | 1 | 100 | 100008 | 75 | 2005-01-25 |
| 612 | 1 | 100 | 100009 | 25 | 2005-02-10 |
| 612 | 2 | 20 | 100008 | 20 | 2005-01-25 |
| 612 | 3 | 150 | 100008 | 100 | 2005-01-25 |
| 612 | 3 | 150 | 100009 | 50 | 2005-02-10 |
| 612 | 4 | 100 | 100008 | 100 | 2005-01-25 |