

SQL Assignment #7

INFO 308

1. Determine which books cost less than the average cost of other books in the same category.

Answer:

Code –

```
SELECT * FROM books b WHERE Cost < (SELECT AVG(Cost) from books group by Category HAVING Category = b.Category)
```

Query –

ISBN	Title	PubDate	PubID	Cost	Retail	Discount	Category
0401140733	REVENGE OF MICKEY	2005-12-14	1	14.20	22.00	NULL	FAMILY LIFE
1915762492	HANDCRANKED COMPUTERS	2005-01-21	3	21.80	25.00	NULL	COMPUTER
3437212490	COOKING WITH MUSHROOMS	2004-02-28	4	12.50	19.95	NULL	COOKING
8117949391	BIG BEAR AND LITTLE DOVE	2005-11-15	5	5.32	8.95	NULL	CHILDREN
8843172113	DATABASE IMPLEMENTATION	2003-06-04	3	31.40	55.95	NULL	COMPUTER

2. List the title of all books in the same category as books previously purchased by customer 1007. Don't include books this customer has already purchased.

Answer:

Code –

```
SELECT b.Title FROM books b WHERE b.Category IN (SELECT b.Category from books b JOIN orderitems oi USING (ISBN) JOIN orders o USING (OrderID) WHERE o.CustomerID = 1007) AND b.ISBN NOT IN (SELECT ISBN FROM orders JOIN orderitems USING (OrderID) WHERE CustomerID = 1007)
```

Query –

Title

HANDCRANKED COMPUTERS

PAINLESS CHILD-REARING

BUILDING A CAR WITH TOOTHPICKS

3. Determine which customers placed orders for the least expensive book (in terms of the regular retail price) carried by JustLee Books.

Answer:

Code –

```
SELECT c.FirstName, c.LastName AS Customers, b.ISBN FROM customers c, orders o, orderitems oi, books b WHERE b.ISBN = oi.ISBN AND oi.OrderID = o.OrderID AND o.CustomerID = c.CustomerID AND b.ISBN = (SELECT ISBN FROM books b WHERE b.retail = (SELECT MIN(retail) FROM books b))
```

Query –

FirstName	Customers	ISBN
TAMMY	GIANA	8117949391
BECCA	NELSON	8117949391
STEVE	SCHELL	8117949391