1) Show the title of books which have more than 10 units in stock.

**select Title**

**from Books**

**where Unit\_in\_Stock > 10;**

Output:

|  |
| --- |
| Title |
| Birmingham |
| Why I still live in Louisiana |
| The World Is Flat |

2) Show the name of books supplied by Amazon.

**select Title**

**from Books B, Suppliers S**

**where B.SupplierID = S.SupplierID**

**and S.CompanyName="Amazon";**

Output:

|  |
| --- |
| Title |
| Why I still live in Louisiana |

3) Show the subject names of books supplied by Ebay.

**select Sub.CategoryName**

**from Subjects Sub, Books B, Suppliers S**

**where B.SubjectID=Sub.SubjectID**

**and B.SupplierID=S.SupplierID**

**and S.CompanyName="EBAY";**

Output:

|  |
| --- |
| CategoryName |
| Fiction |
| History |

4) Show the name and price of the most expensive book supplied by Booksamillion.

**select Title,Unit\_Price**

**from Books B, Suppliers S**

**where B.SupplierID=S.SupplierID**

**and S.CompanyName="Booksamillion"**

**and B.Unit\_Price>= ALL(**

**select Unit\_Price**

**from Books);**

OR

**select Title,Unit\_price**

**from Books**

**where Unit\_price =(**

**select max(Unit\_Price)**

**from Books B, Suppliers S**

**where B.SupplierID=S.SupplierID AND S.CompanyName="Booksamillion");**

Output:

|  |  |
| --- | --- |
| Title | Price |
| The World Is Flat | 30 |

5) Show the name of all books ordered by James Lee.

**select B.Title**

**from Books B, Customers C, Orders O, OrderDetails Od**

**where B.BookID=Od.BookID**

**and Od.OrderID=O.OrderID and O.CustomerID=C.CustomerID**

**and C.FirstName="James" and C.LastName="Lee";**

Output:

|  |
| --- |
| Title |
| The Quickie |
| Birmingham |
| Why I still live in Louisiana |
| The World Is Flat |

6) Show the total price James Lee has paid for the books.

**select SUM(B.Unit\_Price \* Od.Quantity) as Total\_Price**

**from Books B, Customers C, Orders O, OrderDetails Od**

**where C.CustomerID=O.CustomerID**

**and O.OrderID=Od.OrderID and Od.BookID=B.BookID**

**and C.FirstName="James" and C.LastName="Lee";**

Output:

|  |
| --- |
| Total\_Price |
| 153.769998550415 |

7) Show the name of the customer who has paid less than $20 in totals.

**select CONCAT(C1.FirstName,' ',C1.LastName) as Name**

**from Customers C1, Orders O1**

**where EXISTS**

**(select SUM(B.Unit\_Price \* Od.Quantity) as Total\_price**

**from Books B,Orders O, OrderDetails Od, Customers C**

**where C.CustomerID=C1.CustomerID and C1.CustomerID=O.CustomerID**

**and O.OrderID=Od.OrderID and Od.BookID=B.BookID**

**and C1.CustomerID=O1.CustomerID**

**Group By C.CustomerID**

**Having Total\_price<20);**

Output:

|  |
| --- |
| Name |
| John Smith |

8) Show the total price each customer paid and their names. List the result in the descending price.

**select CONCAT(C.FirstName,' ',C.LastName) as Name,**

**SUM(B.Unit\_Price \* Od.Quantity) as Total\_price**

**from Books B, Customers C, Orders O, OrderDetails Od**

**where C.CustomerID=O.CustomerID and O.OrderID=Od.OrderID**

**and Od.BookID=B.BookID**

**Group By Name**

**Order By Total\_price Desc;**

Output:

|  |  |
| --- | --- |
| Name | Total\_price |
| James Lee | 153.769998550415 |
| Jackie Collins | 64 |
| John Smith | 7.94999980926514 |

9) Show the names of all the books shipped on 08/04/10 and their shippers

**select B.Title, S.ShpperName**

**from Books B, Orders O, OrderDetails Od, Shippers S**

**where O.OrderID=Od.OrderID and Od.BookID=B.BookID**

**and S.ShipperID= O.ShipperID and O.ShippedDate="08/04/10";**

Output:

|  |  |
| --- | --- |
| Title | ShpperName |

10) Show the names of all the books John Steely was responsible for.

**select distinct B.Title**

**from Books B, Employees E, Orders O, OrderDetails Od**

**where O.OrderID=Od.OrderID and Od.BookID=B.BookID**

**and E.EmployeeID=O.EmployeeID and E.LastName="Steely"**

**and E.FirstName="John";**

Output:

|  |
| --- |
| Title |
| Why I still live in Louisiana |
| The World Is Flat |
| The Navigator |
| Birmingham |

11) Show the unique names of all the books John Smith and Jackie Collins ordered.

**select Title**

**from Books B,Customers C,Orders O,OrderDetails Od**

**where C.CustomerID=O.CustomerID**

**and O.OrderID=Od.OrderID**

**and Od.BookID=B.BookID**

**and ((C.lastName = "Smith" and C.FirstName = "John") OR**

**(C.lastName = "Collins" and C.FirstName = "Jackie"))**

**group by Title**

**having count(Title)>1;**

Output:

|  |
| --- |
| Title |

12) Show the names of all the ordered books and their total quantities. List the result in the ascending quantity.

**select** Title, SUM(Quantity) as Quantity

**from** Books, OrderDetails

**where** Books.BookID = OrderDetails.BookID

**group** **by** Title

**order** **by** Quantity;

Output:

|  |  |
| --- | --- |
| Title | Quantity |
| North Carolina Ghosts | 1 |
| The Navigator | 1 |
| Birmingham | 2 |
| Why I still live in Louisiana | 2 |
| The Quickie | 2 |
| The World Is Flat | 4 |

13) Show the names of the customers who ordered at least a book whose name includes “Louisiana”.

**select** CONCAT(C.FirstName,' ',C.LastName) as Name

**from** Customers C

**where** **EXISTS**

(**Select** Od.OrderID, SUM(Quantity) as Quantity

**from** OrderDetails Od, Books B, Orders O

**where** O.OrderID = Od.OrderID

**and** B.BookID = Od.BookID

**and** B.Title REGEXP '[A-Z|a-z]\* Louisiana'

**and** C.CustomerID = O.CustomerID

**Group By** CustomerID

**Having** Quantity>=1);

Output:

|  |
| --- |
| Name |
| James Lee |

14) Show the name of the customer who has ordered at least one book written by Thomas.

**select distinct CONCAT(C.FirstName,' ',C.LastName) as Name**

**from Books B,Customers C,Orders O,OrderDetails Od**

**where C.CustomerID=O.CustomerID**

**and O.OrderID=Od.OrderID**

**and Od.BookID=B.BookID**

**and B.Author="Thomas";**

Output:

|  |
| --- |
| Name |
| James Lee |
| Jackie Collins |

15) Show the name of the customer who has ordered at least a “Fiction” book or a “Travel” book and the book names

**select distinct CONCAT(C.FirstName,' ',C.LastName) as Name, B.Title**

**from Books B, Subjects Sub, Customers C, Orders O, OrderDetails Od**

**where B.BookID=Od.BookID**

**and B.SubjectID=Sub.SubjectID**

**and C.CustomerID=O.CustomerID**

**and O.OrderID=Od.OrderID**

**and Sub.CategoryName IN ('Fiction','Travel');**

Output:

|  |  |
| --- | --- |
| Name | Title |
| James Lee | The Quickie |
| James Lee | Why I still live in Louisiana |
| Jackie Collins | The Navigator |

16) Show the name of each category and the cheapest price of the books in that category.

**select S.CategoryName, MIN(B.Unit\_Price) AS Cheapest\_Price**

**from Books B, Subjects S**

**where S.SubjectID=B.SubjectID**

**Group By S.CategoryName;**

Output:

|  |  |
| --- | --- |
| CategoryName | Cheapest\_Price |
| Fiction | 13.24 |
| History | 7.95 |
| Technology | 30 |
| Travel | 5.95 |

17) Show the name and total sale (price of orders) of each employee.

**select CONCAT(E.FirstName,' ',E.LastName) AS Name,**

**SUM(B.Unit\_Price \* Od.Quantity) AS Total\_Sale**

**from Orders O, OrderDetails Od, Employees E, Books B**

**where E.EmployeeID=O.EmployeeID and O.OrderID=Od.OrderID**

**and Od.BookID=B.BookID**

**Group By Name;**

Output:

|  |  |
| --- | --- |
| Name | Total\_Sale |
| Erik Larson | 59.8199987411499 |
| John Steely | 165.89999961853 |

18) Show the book names and their respective quantities for open orders (the orders which have not been shipped) at midnight 08/04/10.

**select Title, SUM(Quantity) as Quantity**

**from OrderDetails as OD1, Books B**

**where OD1.BookID = B.BookID**

**and B.BookID IN**

**(select BookID**

**from Orders as O, OrderDetails as OD**

**where O.ShippedDate > '08/04/10'**

**and OD.OrderID = O.OrderID)**

**Group By Title**

**Order By B.BookID;**

Output:

|  |  |
| --- | --- |
| Title | Quantity |
| The Navigator | 1 |
| Birmingham | 2 |
| The World Is Flat | 4 |

19) Show the names of customers who have ordered multiple (more than 1) books and the corresponding quantities. List the result in the descending quantity.

**select CONCAT(C.FirstName,' ',C.LastName) AS Name, SUM(OD.Quantity) as Quantity**

**from Customers as C, Orders as O, OrderDetails as OD**

**where C.CustomerID = O.CustomerID**

**and O.OrderID = OD.OrderID**

**Group By C.CustomerID**

**having count(OD.OrderID)>1**

**Order By Quantity DESC;**

Output:

|  |  |
| --- | --- |
| Name | Quantity |
| James Lee | 8 |
| Jackie Collins | 3 |

20) Show me the names of customers who have ordered multiple (more than 1) books and their respective telephone numbers.

**select CONCAT(C.LastName,' ',C.FirstName) AS Name, Phone**

**from Customers as C, Orders as O, OrderDetails as OD**

**where C.CustomerID = O.CustomerID**

**and O.OrderID = OD.OrderID**

**Group By C.CustomerID**

**Having count(OD.OrderID) > 1;**

Output:

|  |  |
| --- | --- |
| Name | Phone |
| Lee James | 334-001-001 |
| Collins Jackie | 334-004-004 |