Coursework - SQL
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This homework answers the problem set sequentially.

1. *List the dates of orders placed by customer Mr Gray (try using a subquery).*

   Answer: Print view on page 2

2. *List the names of the supplier, itemID, item description and stocklevel for each kind of tent.*

   Answer: Print view on page 3

3. *Who supplies the two types of item on order 119 (i.e, itemID, supplierName)?*

   Answer: Print view on page 4

4. *List items for which there is more than one type on sale (e.g., tents)and say how many types there are.*

   Answer: Print view on page 5

5. *List customers with ordered items yet to be received and the description of the item they are waiting for (i.e., firstname, familyname, description).*

   Answer: Print view on page 6

6. *For orders that have not been completely fulfilled, what is their orderID, which itemIDs on those orders have not been despatched and how many of those items remain to be despatched?*

   Answer: Print view on page 7

7. *Write an interesting query of your own and explain what question it is answering. Submit the query and results.*

   Answer: An interesting query of my own is listing the order ID, the customer credentials (name, town, and state), and the date the order was placed for orders that have not been fulfilled. This could possibly be used the *Delivery* team of the e-commerce company to contact customers whose orders have been delayed or simply not despatched yet.

   Print view on page 8

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 09, 2019 at 12:11 AM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT date AS date_of_orders_placed_by_Mr_Gray FROM orders WHERE custID = (SELECT custID FROM customers WHERE familyname = "Gray") LIMIT 0, 30 ;
Rows: 6

This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

date_of_orders_placed_by_Mr_Gray
Feb 1 2011
Feb 3 2011
Feb 6 2011
Feb 12 2011
Feb 15 2011
Feb 22 2011

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 08:16 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT S.supplierName, I.itemID, I.description, I.stocklevel FROM suppliers S, items I, supplieritems SI WHERE I.description = "tent" AND I.itemID = SI.itemID AND SI.supplierID = S.supplierID ORDER BY I.stocklevel DESC LIMIT 0, 30 ;
Rows: 2

 This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

supplierName	itemID	description	stocklevel	
Homegrown Inc	T1	Tent	21	
Homegrown Inc	T6	Tent	12	

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 08:18 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT LI.itemID, S.supplierName FROM lineitems LI, suppliers S, supplieritems SI WHERE LI.orderID = 119 AND LI.itemID = SI.itemID AND SI.supplierID = S.supplierID ORDER BY S.supplierName LIMIT 0, 30 ;
Rows: 2

This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

itemID	supplierName	
S8	Hardwear Inc	
F8	Homegrown Inc	

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 08:31 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT description AS item, COUNT(description) AS types FROM items GROUP BY description HAVING COUNT(description) > 1 ORDER BY item LIMIT 0, 30 ;
Rows: 6

This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

item	types	
Flashlight	2	
Lantern	2	
Sleeping Bag	2	
Tent	2	
Umbrella	2	
Unicycle	2	

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 08:49 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT CONCAT(C.firstname, " ", C.familyname) AS customerName, I.description AS itemDesciption FROM customers C, items I, orders O, lineitems LI WHERE LI.despatched != LI.quantity AND LI.orderID = O.orderID AND LI.itemID = I.itemID AND O.custID = C.custID ORDER BY customerName LIMIT 0, 30 ;
Rows: 17

 This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

customerName	itemDesciption	
Conrad Giles	Tent	
Conrad Giles	Ski Poles	
Donald Davids	Lawnchair	
Elroy Keller	Tent	
Isabela Moore	Canoe	
Isabela Moore	Canoe paddle	
Isabela Moore	Bicycle	
John Gray	Hoola Hoop	
John Gray	Lantern	
John Gray	Life Vest	
John Gray	Sleeping Bag	
Kevin Smith	Umbrella	
Leroy Brown	Unicycle	
Leroy Brown	Lantern	
Leroy Brown	Helmet	
Shawn Dalton	Pogo stick	
Shawn Dalton	Flashlight	

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 09:24 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT orderId, itemID, (quantity - despatched) AS itemsRemaining FROM lineitems WHERE despatched != quantity ORDER BY itemsRemaining DESC LIMIT 0, 30 ;
Rows: 17

This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

orderId	itemID	itemsRemaining
134	F6	4
139	L5	3
150	C6	2
131	T6	2
147	B1	1
147	C1	1
144	T1	1
143	S4	1
140	U4	1
133	S7	1
127	H2	1
127	U6	1
126	L9	1
124	S3	1
123	L8	1
122	H5	1
120	V1	1

SQL result

Host: localhost
Database: Shop
Generation Time: Oct 10, 2019 at 09:54 PM
Generated by: phpMyAdmin 4.0.10.2 / MySQL 5.1.73
SQL query: SELECT LI.orderID, (LI.quantity - LI.despatched) AS itemsRemaining, CONCAT(C.firstname, " ", C.familyname) as customerName, C.town, C.state, O.date FROM lineitems LI, customers C, orders O WHERE LI.despatched != LI.quantity AND LI.orderID = O.orderID AND O.custID = C.custID ORDER BY itemsRemaining DESC LIMIT 0, 30 ;
Rows: 17

This table does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

orderID	itemsRemaining	customerName	town	state	date
134	4	Shawn Dalton	Cannon Beach	Oregon	Feb 15 2011
139	3	Donald Davids	Gila Bend	Arizona	Feb 28 2011
150	2	Isabela Moore	Yuma	Arizona	Feb 1 2011
131	2	Elroy Keller	Snoqualmie	Washington	Feb 20 2011
147	1	Isabela Moore	Yuma	Arizona	Feb 20 2011
147	1	Isabela Moore	Yuma	Arizona	Feb 20 2011
144	1	Conrad Giles	Telluride	Colorado	Feb 12 2011
143	1	Conrad Giles	Telluride	Colorado	Feb 1 2011
140	1	Kevin Smith	Durango	Colorado	Feb 1 2011
133	1	Shawn Dalton	Cannon Beach	Oregon	Feb 1 2011
127	1	Leroy Brown	Pinetop	Arizona	Feb 12 2011
127	1	Leroy Brown	Pinetop	Arizona	Feb 12 2011
126	1	Leroy Brown	Pinetop	Arizona	Feb 5 2011
124	1	John Gray	Lynden	Washington	Feb 22 2011
123	1	John Gray	Lynden	Washington	Feb 15 2011
122	1	John Gray	Lynden	Washington	Feb 12 2011
120	1	John Gray	Lynden	Washington	Feb 3 2011