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USE wagstaff_INFOST_410;
No Output

 /** For each order, list the order number and order date along with the number
and the name of the customer that placed the order. (Example 5-1 in the slides)
 **/
  SELECT OrderNum, OrderDate, Orders.CustomerNum, Customer.CustomerName FROM Or
ders JOIN Customer ON Orders.CustomerNum = Customer.CustomerNum;

+------------+------------+--------------+----------------------------+
| OrderNum | OrderDate | CustomerNum | CustomerName |
|------------+------------+--------------+----------------------------|
21608	2013-10-20	148	Al's Appliance and Sport
21610	2013-10-20	356	Ferguson's
21613	2013-10-21	408	The Everything Shop
21614	2013-10-21	282	Brookings Direct
21617	2013-10-23	608	Johnson's Department Store
21619	2013-10-23	148	Al's Appliance and Sport
21623	2013-10-23	608	Johnson's Department Store
+------------+------------+--------------+----------------------------+

 /** For each order placed on October 21, 2013, list the order number along with
 the number and name of the customer that placed the order. (Example 5-2 in th
e slides) **/
  SELECT OrderNum, Orders.CustomerNum, Customer.CustomerName FROM Orders JOIN
Customer ON Orders.CustomerNum = Customer.CustomerNum WHERE OrderDate = DATE("
2013-10-21");

+------------+--------------+---------------------+
| OrderNum | CustomerNum | CustomerName |
|------------+--------------+---------------------|
| 21613 | 408 | The Everything Shop |
| 21614 | 282 | Brookings Direct |
+------------+--------------+---------------------+

 /** For each order, list the order number, order date, part number, number of u
nits quoted price for each order line that makes up the order.(Example 5-3 in t
he slides) **/
  SELECT Orders.OrderNum, Orders.OrderDate, PartNum, NumOrdered, QuotedPrice FR
OM OrderLine JOIN Orders ON Orders.OrderNum = OrderLine.OrderNum;

+------------+------------+-----------+-------------+---------------+
| OrderNum | OrderDate | PartNum | NumOrdered | QuotedPrice |
|------------+------------+-----------+-------------+---------------|
21608	2013-10-20	AT94	11	21.95
21610	2013-10-20	DR93	1	495
21610	2013-10-20	DW11	1	399.99
21613	2013-10-21	KL62	4	329.95
21614	2013-10-21	KT03	2	595
21617	2013-10-23	BV06	2	794.95
21617	2013-10-23	CD52	4	150
21619	2013-10-23	DR93	1	495
21623	2013-10-23	KV29	2	1290
+------------+------------+-----------+-------------+---------------+

 /** Use the IN operator to find the number and name of each customer that place
d an order on October 21, 2013.(Example 5-5) **/
  SELECT CustomerNum, CustomerName FROM Customer WHERE CustomerNum In (SELECT

```
CustomerNum FROM Orders WHERE OrderDate = DATE("2013-10-21"));
+--------------+---------------------+
|  CustomerNum | CustomerName        |
|--------------+---------------------|
|          408 | The Everything Shop |
|          282 | Brookings Direct    |
+--------------+---------------------+
```

 /** Repeat question 4, but this time use the EXISTS operator in your answer. (Example 5-6) **/
   SELECT CustomerNum, CustomerName FROM Customer WHERE EXISTS (SELECT CustomerNum   FROM Orders   WHERE Customer.CustomerNum = Orders.CustomerNum   AND OrderDate = DATE("2013-10-21")   );
```
+--------------+---------------------+
|  CustomerNum | CustomerName        |
|--------------+---------------------|
|          282 | Brookings Direct    |
|          408 | The Everything Shop |
+--------------+---------------------+
```

 /** Find the number and name of each customer that did not place an order on October 21 , 2013. (Hint: NOT IN) (Example 5-5, but use NOT IN) **/
   SELECT CustomerNum, CustomerName FROM Customer WHERE CustomerNum NOT IN (SELECT CustomerNum FROM Orders WHERE OrderDate = DATE("2013-10-21"));
```
+--------------+---------------------------+
|  CustomerNum | CustomerName              |
|--------------+---------------------------|
|          148 | Al's Appliance and Sport  |
|          356 | Ferguson's                |
|          462 | Bargains Galore           |
|          524 | Kline's                   |
|          608 | Johnson's Department Store |
|          687 | Lee's Sport and Appliance  |
|          725 | Deerfield's Four Seasons   |
|          842 | All Season                |
+--------------+---------------------------+
```

 /** For each order, list the order number, order date, part number, part description, and item class for each part that makes up the order. (Hint: JOIN three tables) (Example 5-16) **/
   SELECT Orders.OrderNum, Orders.OrderDate, OrderLine.PartNum, Part.Description, Part.Class FROM Orders JOIN OrderLine ON Orders.OrderNum = OrderLine.OrderNum JOIN Part ON OrderLine.PartNum = Part.PartNum;
```
+------------+------------+-----------+---------------+---------+
|  OrderNum  | OrderDate  | PartNum   | Description   | Class   |
|------------+------------+-----------+---------------+---------|
|      21608 | 2013-10-20 | AT94      | Iron          | HW      |
|      21610 | 2013-10-20 | DR93      | Gas Range     | AP      |
|      21610 | 2013-10-20 | DW11      | Washer        | AP      |
|      21613 | 2013-10-21 | KL62      | Dryer         | AP      |
|      21614 | 2013-10-21 | KT03      | Dishwasher    | AP      |
|      21617 | 2013-10-23 | BV06      | Home Gym      | SG      |
|      21617 | 2013-10-23 | CD52      | Microwave Oven | AP     |
|      21619 | 2013-10-23 | DR93      | Gas Range     | AP      |
|      21623 | 2013-10-23 | KV29      | Treadmill     | SG      |
+------------+------------+-----------+---------------+---------+
```

 /** Repeat question 7, but this time order the rows by item class and then by order number (Example 5-16 with ORDER BY clause added) **/
   SELECT Orders.OrderNum, Orders.OrderDate, OrderLine.PartNum, Part.Description,

Part.Class FROM Orders JOIN OrderLine ON Orders.OrderNum = OrderLine.OrderNum JOIN Part ON OrderLine.PartNum = Part.PartNum ORDER BY Part.Class, Orders.OrderNum;

+------------+------------+----------+----------------+---------+
| OrderNum | OrderDate | PartNum | Description | Class |
|------------+------------+----------+----------------+---------|
21610	2013-10-20	DW11	Washer	AP
21610	2013-10-20	DR93	Gas Range	AP
21613	2013-10-21	KL62	Dryer	AP
21614	2013-10-21	KT03	Dishwasher	AP
21617	2013-10-23	CD52	Microwave Oven	AP
21619	2013-10-23	DR93	Gas Range	AP
21608	2013-10-20	AT94	Iron	HW
21617	2013-10-23	BV06	Home Gym	SG
21623	2013-10-23	KV29	Treadmill	SG
+------------+------------+----------+----------------+---------+

/** Use ■ subquery to find the rep number, last name, and first name of each sales rep who represents at least one customer with ■ credit limit of $5,000. (Hint: Use WHERE RepNum IN) (Example 5-6) **/
   SELECT RepNum, LastName, FirstName FROM Rep WHERE RepNum IN (SELECT RepNum FROM Customer WHERE CreditLimit = 5000);

+----------+-----------+-------------+
| RepNum | LastName | FirstName |
|----------+-----------+-------------|
| 35 | Hull | Richard |
+----------+-----------+-------------+

/** Repeat question 9, but this time do not use ■ subquery.(Example 5-4) **/
   SELECT DISTINCT Rep.RepNum, Rep.LastName, Rep.FirstName FROM Rep JOIN Customer ON Rep.RepNum = Customer.RepNum WHERE Customer.CreditLimit = 5000;

+----------+-----------+-------------+
| RepNum | LastName | FirstName |
|----------+-----------+-------------|
| 35 | Hull | Richard |
+----------+-----------+-------------+

/** Find the number and name of each customer that currently has an order on file for ■ 'Gas Range'. (Example 5-16) **/
   SELECT Customer.CustomerNum, Customer.CustomerName FROM Customer, Orders, OrderLine, Part WHERE Customer.CustomerNum = Orders.CustomerNum AND Orders.OrderNum = OrderLine.OrderNum AND OrderLine.PartNum = Part.PartNum AND Part.Description = 'Gas Range';

+---------------+--------------------------+
| CustomerNum | CustomerName |
|---------------+--------------------------|
| 356 | Ferguson's |
| 148 | Al's Appliance and Sport |
+---------------+--------------------------+

/** List the part number, part description, and item class for each pair of parts that are in same item class. (For example, one such pair would b■ part ■■ 94 and part FD21, because the item class for both parts is HW. Pairs of parts would have different part numbers but be in the same class). Order output by class. (Example 5-12) **/
   SELECT A.PartNum, A.Description, B.PartNum, B.Description, A.Class FROM Part A, Part B WHERE A.Class = B.Class AND A.PartNum < B.PartNum ORDER BY A.Class, A.PartNum, B.PartNum;

+------------+----------------+----------+----------------+---------+
| PartNum | Description | PartNum | 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

/** List the order number and order date for each order placed by the customer named "Johnson's Department Store". (Hint: To enter an apostrophe use single quotation mark) within ■ string of characters, type two single quotation marks. Customer.CustomerName`='Johnson''s Department Store') (Example 5-4) **/
  SELECT OrderNum, OrderDate FROM Orders, Customer WHERE Customer.CustomerName = 'Johnson''s Department Store' AND Orders.CustomerNum = Customer.CustomerNum;

OrderNum	OrderDate
21617	2013-10-23
21623	2013-10-23

/** List the order number and order date for each order that contains an order line for an lron.(Example 5-16) **/
  SELECT Orders.OrderNum, Orders.OrderDate FROM Orders, OrderLine, Part WHERE Part.Description = 'Iron' AND OrderLine.PartNum = Part.PartNum AND Orders.OrderNum = OrderLine.OrderNum;

OrderNum	OrderDate
21608	2013-10-20

/** Use UNION to list the order number and order date for each order that either was placed by Johnson's Department Store or that contains an order line for ■ Gas Range. (Example 5-20) **/
  SELECT Orders.OrderNum, Orders.OrderDate FROM Orders, Customer WHERE CustomerName = 'Johnson''s Department Store' AND Orders.CustomerNum = Customer.CustomerNum UNION SELECT Orders.OrderNum, Orders.OrderDate FROM Orders, OrderLine, Part WHERE Part.Description = 'Gas Range' AND OrderLine.PartNum = Part.PartNum AND Orders.OrderNum = OrderLine.OrderNum;

OrderNum	OrderDate
21617	2013-10-23
21623	2013-10-23
21610	2013-10-20
21619	2013-10-23