**SQL Worksheet**

**DAT 20**

|  |  |  |
| --- | --- | --- |
| **Customers** | | |
| **id** | **first\_name** | **last\_name** |
| 78392 | Mary | Blige |
| 83930 | Matthew | McCounghey |
| 34363 | Norah | Jones |
| 74403 | Kyrie | Irving |
| 73839 | Larry | David |
| 54647 | Beyonce | Knowles |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Orders** | | | | | | |
| **id** | **item** | **date\_purchased** | **quantity** | **date\_delivered** | **category** | **customer\_id** |
| 123 | sunglasses | 1/1/2015 | 1 | 1/13/2015 | 4 | 78392 |
| 456 | tire | 3/15/2015 | 3 | 3/17/2015 | 6 | 54647 |
| 789 | chips | 3/10/2015 | 4 | 3/14/2015 | 8 | 73839 |
| 234 | lightbulb | 2/18/2015 | 7 | 2/19/2015 | 9 | 78392 |
| 345 | watch | NULL | 8 | NULL | 4 | 34363 |
| 567 | cellphone | 10/15/2014 | 2 | 10/31/2014 | 15 | 54647 |

|  |  |
| --- | --- |
| **Categories** | |
| **id** | **name** |
| 4 | accessories |
| 6 | automobiles |
| 8 | grocery |
| 9 | homegoods |
| 15 | electronics |

1. How do the three tables relate to each other?
2. How many items did Beyonce Knowles purchase? What tables did you join to come to this answer?
3. What categories of items did Beyonce Knowles purchase? What tables did you join to come to this answer?
4. Which items are accessories? What tables did you join to come to this answer?

**SQL Editor Exercises**

**DAT 19**

**http://www.w3schools.com/sql/trysql.asp?filename=trysql\_select\_all**

1. What customers are from the UK?
2. What is the name of the customer who has the most orders?
3. What supplier has the highest average product price?
4. What category has the most orders?
5. What employee made the most sales (by number of sales)?
6. What employee made the most sales (by value of sales)?
7. What Employees have BS degrees? (Hint: Look at LIKE operator)
8. What supplier has the highest average product price *assuming they have at least 2 products* (Hint: Look at the HAVING operator)