

## **MINDWORX ACADEMY DATABASE MANIPULATION PROJECT**

**Use the attached .Bak file from BikeStore Database to carry out an analysis of BikeStore Company using the following guide questions.**

### ***Instructions***

- Back up the .Bak file on SQL Server Management Studio.
- All answers should be completed directly on **SSMS**.
- Student should show high level of research and advance SQL querying.
- Note that this project will run co-current with the programme, students are allowed to refer any question regarding this project to their facilitator.
- All theory questions should be written as a comment on **SSMS**.
- For your submission, you are required to submit a **SSMS** file to your facilitator upon the completion of the programme.

**NB: Order Status 1 = Pending  
2 = Processing  
3 = Rejected  
4 = Completed**

### ***Questions***

1. Which bike is most expensive? What could be the motive behind pricing this bike at high price?
2. How many total customers does BikeStore have? Would you consider people with order status 3 as customers substantiate your answer?
3. How many stores does BikeStore have?
4. What is the total price spent per order?
5. What's the sales/revenue per store? Why are some stores doing better than other?
6. Which category is most sold?
7. Which category rejected more orders? What can you conclude from results?
8. Which bike is the least sold? Considering all factors why is this bike least selling?

9. What's the full name of customer with ID 259?
10. What did customer on question 7 buy and when? What's the status of this order?
11. What was the product quantity of product id 8 before customer 259 completed his order, what can You draw from your answer?
12. Which staff processed the order of customer 259? And from which store?
13. Who is the supervisor/manager of staff mentioned in 11?
14. How many staff does BikeStore have? Who seems to be the lead Staff at BikeStore?
15. Which brand is the most liked?
16. How many categories does BikeStore have and which one is the least liked?
17. Which products need to be re ordered?
18. Which store still have more products of the most liked brand?
19. Does the store have a customer called Genoveve Tyler?
20. Which state is doing better in terms of sales?
21. How many orders are still being at processing phase?
22. What's the discounted price of product id 259?
23. What's the actual price of product 22 after discount?
24. What's the product name, quantity, price, category, model year and brand name of product number 44?
25. Who does staff Genna Serrano report to?
26. What's the zip code of CA?
27. How many states does BikeStore operate in?
28. How many bikes under children category were sold in the last 8 months?
29. What's the shipped date for the order from customer 523
30. How many orders are still pending?
31. Which category is the most expensive bike fall under?
32. Which bike is the 3rd expensive?
33. Who do you think might be the main boss of bike store
34. What's the names of category and brand does "Electra white water 3i - 2018" fall under?
35. How much did customer 259 spend for his order?
36. Create following stored procedure that finds products by model year and returns the number of products via the @product\_count output parameter. Execute the stored procedure to return the total of 2018 products?
37. Create a stored procedure returns all products whose list prices are in a given range e.g. between 100 and 200. The user must be able to specify the range when executing the stored procedure. Execute the stored procedure for products' list price between 1200 and 1500?

38. As a business analyst what's business opportunities would you advocate to BikeStore, what thoughts and conclusion can you draw from this database?