Daniels College of Business, University of Denver

**Get Good GPUs Solution Documentation**

INFO 3300 Fall 2022

Solution: Get Good GPUs

Owner: Rupert Hutton

Date: 9/30/2022

**Change Log:**

|  |  |  |
| --- | --- | --- |
| Who | When | What |
| Rupert | 9/30/2022 | Created Get Good GPU’s solution documentation. Created the change log, wrote the executive summary and business requirements, and filled in the information package. |
| Rupert | 10/2/2022 | Created the star schema, excel worksheet and send project to Hunter and Xijja for peer review |
| Hunter | 10/2/2022 | Peer Review |
| Xijia | 10/3/2022 | Peer Review |
| Rupert | 10/3/2022 | Read both Peer Reviews and made appropriate changed based on feedback. |
| Rupert | 10/10/2022 | Began to make appropriate changes based on Phase 1 feedback from Amy |
| Rupert | 10/11/2022 | Finished making appropriate changes based on Phase 1 feedback from Amy |
| Rupert | 10/11/2022 | Wrote GetGoodGPUDM build script |
| Rupert | 10/11/2022 | Sent peer review to Hunter and Xijia |
| Hunter | 10/12/2022 | Peer Reviewed |
| Xijia | 10/12/2022 | Peer Reviewed |
| Rupert | 10/12/2022 | Made appropriate changes based on the feedback received in peer reviews |
| Rupert | 10/12/2022 | Submitted to Amy for Grading |
| Rupert | 10/17/2022 | Made appropriate changes based on Phase 2 feedback from AmyS |
| Rupert | 10/20/2022 | Began to work on ELT |
| Rupert | 10/22/2022 | Continued working on ELT |
| Rupert | 10/23/2022 | Finished ELT and began debugging |
| Rupert | 10/24/2022 | Finished Debugging |
| Rupert | 10/24/2022 | Sent peer review to my peer learning group |
| Xijia | 10/24/2022 | Peer Review |
| Hunter | 10/24/2022 | Peer Review |
| Rupert | 10/24/2022 | Made Changes Based on Peer Review |
| Rupert | 11/8/2022 | Made Changes based on Amy’s Feedback |
| Rupert | 11/8/2022 | Began working on Phase 4 |
| Rupert | 11/9/2022 | Finished working on Phase 4 |
| Rupert | 11/9/2022 | Sent Phase 4 to peer reviewers |
| Xijia | 11/9/2022 | Peer Review |
| Hunter | 11/9/2022 | Peer Review |
| Rupert | 11/9/2022 | Made Changes Based on Peer Review |
| Rupert | 11/17/2022 | Began Working on Phase 5 |

**Executive Summary:**

Get Good GPUs is an online and retail store that specializes in selling computer graphics processing units (GPU). Get Good GPUs has an elite team of workers who have dedicated themselves to helping people find the perfect GPU for their needs. Over the last year, they have seen an explosion in both the number of customers and the amount of GPU the company stocks. Their databases have reached a point where an OLTP is simply not enough for the amount of data they are collecting. Along with this, management has been pushing to implement a data mart to achieve their past data, consolidate their current data to be more manageable, and use this consolidated data to report on key aspects of the business. The CEO and CFO of Get Good GPUs want to have a better understanding of their sales and order details from the past seven years since the business began. The high-ups believe that with this information they can make more informed decisions that will help Get Good GPUs become the largest retail GPU store in the US market.

**Business Requirements:**

* The CFO of Get Good GPUs wants to know the revenue statistics based on year, GPU company, GPU name, whether the GPU had raytracing or not, whether the GPU was packaged in fancy packaging, and customer demographics.
  + Reason: With this information, the CFO will be able to see a breakdown of which GPUs are selling the best across the entire company. They will have insight into which brand is most popular and specifically which GPU from those brands. They will know if raytracing made a difference when it came to revenue. Finally, they will have a better understanding of what kind of customers are buying their GPUs.
* The CEO is curious about who in the company deserves a promotion, he wants to know the quantity of GPUs sold and revenue brought in based on sales month, associate name, associate demographic, associate’s specialty, and GPU name.
  + Reason: The CEO of Get Good GPUs is looking to expand the business and wants to know which of the sales associates can be trusted to continue their excellent performance. He is looking to reward those who are doing a fantastic job at the company and to inform those not doing well that they need to step it up. He is also curious to see if certain associates are pushing a certain kind of GPU to customers so that management can have a better understanding of their inventory.

**Information Subject: Sales**

**Dimensions:**

Hierarchies/Categories

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Customer** | **Sales Associate** | **GPU** |
| Year | State | Name | Name |
| Quarter | Date of Birth | Date of Birth | Price |
| Month | Gender | Hire Date | Company |
| Date |  | Gender | Packaging |
| Day of week |  | Specialty | Raytracing |
| Day of month |  |  |  |
| Season |  |  |  |
| Holiday |  |  |  |
| Fact: Total Price, Quantity, \*Order Date, \*Ship Date | | | |

\*Order Date and Ship Date will be used to see how long it takes to ship each GPU

\*Ship Date will be used with today’s date to calculate how long it took for a GPU to be delivered