Query Results:

**Sales Metrics:**

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| --- | --- |
| How many pizzas were ordered? | 28 pizzas were ordered. |
| How many unique customer orders were made? | 10 Deliveries total |
| How many successful orders were delivered by each runner? | Runner 1 Delivered 4 Orders  Runner 2 Delivered 3 Orders  Runner 3 Delivered 1 Order |
| How many of each type of pizza was delivered? | 18 Meat Lovers  6 Vegetarian |
| How many Vegetarian and Meat lovers were ordered by each customer? | |  |  | | --- | --- | | Customer ID | Orders | | 101 | 4 Meat lovers | | 102 | 4 Meat lovers  2 Vegetarian | | 103 | 4 Meat lovers  2 Vegetarian | | 104 | 6 Meat lovers | | 105 | 2 Vegetarian | |
| What was the maximum number of pizzas delivered in a single order | 6 Pizzas for order 4 |
| For each customer, how many delivered pizzas had at least 1 change, and how many had no changes? | |  |  | | --- | --- | | Customer ID | Changes | | 101 | 4 No Changes | | 102 | 6 No Changes | | 103 | 6 Changes | | 104 | 4 Changes, 2 Unchanged | | 105 | 2 Changes | |
| How many pizzas were delivered that had both exclusions and extras? | 2 Total Pizzas were changed. |
| What was the total volume of pizzas ordered for each hour of the day? | Hour, Order Pairs: 11,2/13,6/18,6/19,2/21,6/23,6 |
| What was the volume of orders for each day of the week? | FRIDAY: 2, SATURDAY: 10, THURSDAY: 6, WEDNESDAY: 10 |

**Performance Metrics and Customer Service Metrics:**

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| --- | --- |
| How many runners signed up for each 1 week period? (i.e. week starts 2021-01-01) | Week 1: 4, Week 5: 2, Week 7: 2 |
| What was the average time in minutes it took for each runner to arrive at the Pizza Runner HQ to pickup the order? | Runner 1: 15.68Minutes  Runner 2: 23.72Minutes  Runner 3: 10.47Minutes |
| Is there any relationship between the number of pizzas and how long the order takes to prepare? | 2 Pizzas, 12.35666  4 Pizzas, 18.375  6 Pizzas, 29.2833 |
| What was the average distance travelled for each customer? | ID, Avg\_Time: 101:20, 102: 16.73, 103: 23.4, 104: 10, 105: 25 |
| What was the difference between the longest and shortest delivery times for all orders? | 30 minutes |
| What was the average speed for each runner for each delivery and do you notice any trend for these values? | Runner ID, Speed(KM/H) 3,40  2,51.78  1,47.06 |
| What is the successful delivery percentage for each runner? | Runner 1: 100%  Runner 2: 75%  Runner 3: 50% |

**Inventory Optimization:**

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| --- | --- |
| What are the standard ingredients for each pizza? | Meatlovers: "BBQ Sauce, Pepperoni, Cheese, Salami, Chicken, Bacon, Mushrooms, Beef"  Vegetarian: "Tomato Sauce, Cheese, Mushrooms, Onions, Peppers, Tomatoes" |
| What was the most commonly added extra? | Bacon,8  Chicken,2  Cheese,2 |
| What was the most common exclusion? | Cheese,8  Mushrooms,2  BBQ Sauce,2 |
| Generate an order item for each record in the customers orders table in the format of one of the following:  Meat Lovers  Meat Lovers - Exclude Beef  Meat Lovers - Extra Bacon  Meat Lovers - Exclude Cheese, Bacon - Extra Mushroom, Peppers | **1,Meatlovers**  **1,Meatlovers**  **2,Meatlovers**  **2,Meatlovers**  **3,Vegetarian**  **3,Vegetarian**  **3,Meatlovers**  **3,Meatlovers**  **4,Meatlovers - Exclude Cheese**  **4,Vegetarian - Exclude Cheese**  **4,Meatlovers - Exclude Cheese**  **4,Vegetarian - Exclude Cheese**  **4,Meatlovers - Exclude Cheese**  **4,Meatlovers - Exclude Cheese**  **5,Meatlovers - Extra Bacon**  **5,Meatlovers - Extra Bacon**  **6,Vegetarian**  **6,Vegetarian**  **7,Vegetarian - Extra Bacon**  **7,Vegetarian - Extra Bacon**  **8,Meatlovers**  **8,Meatlovers**  **9,"Meatlovers - Exclude Cheese - Extra Bacon, Chicken"**  **9,"Meatlovers - Exclude Cheese - Extra Bacon, Chicken"**  **10,"Meatlovers - Exclude BBQ Sauce, Mushrooms - Extra Bacon, Cheese"**  **10,Meatlovers** |
| Generate an alphabetically ordered comma separated ingredient list for each pizza order from the customerorders table and add a 2x in front of any relevant ingredients |  |