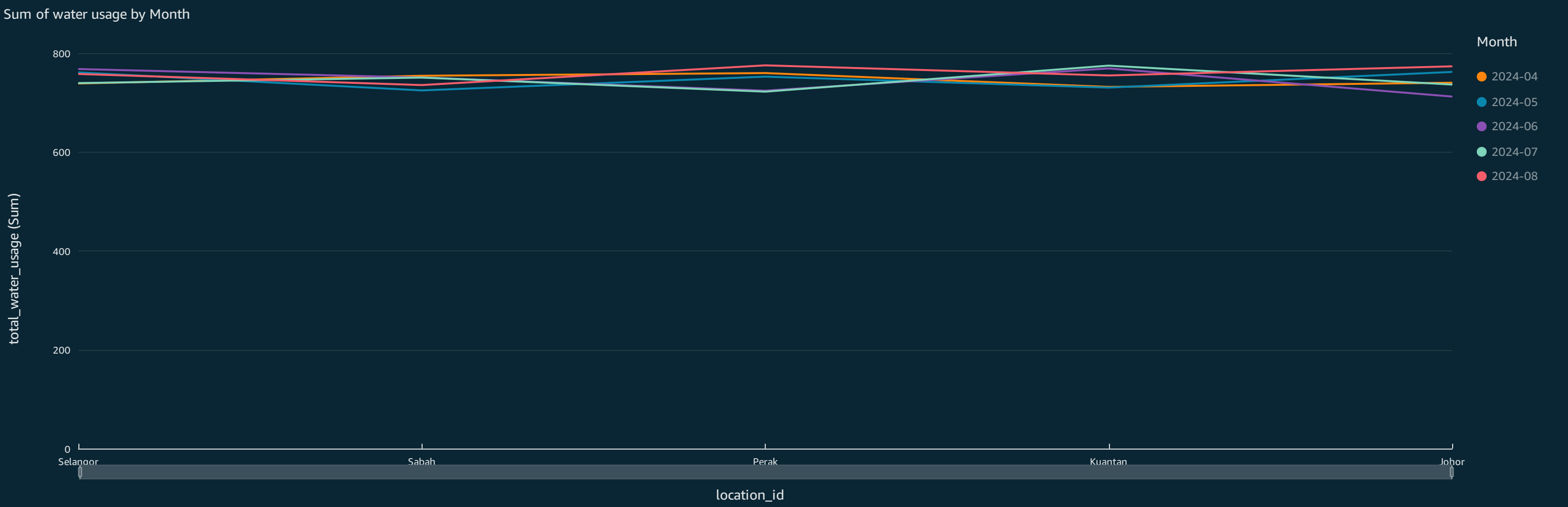


Smart Irrigation Monitoring and Management System

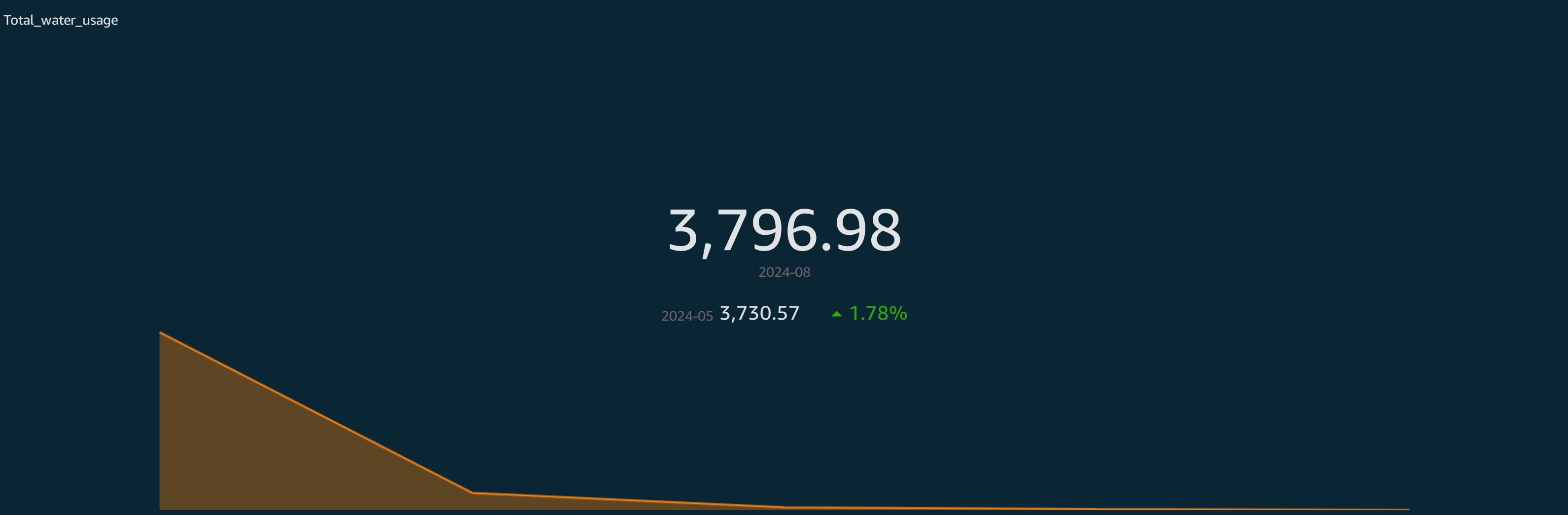
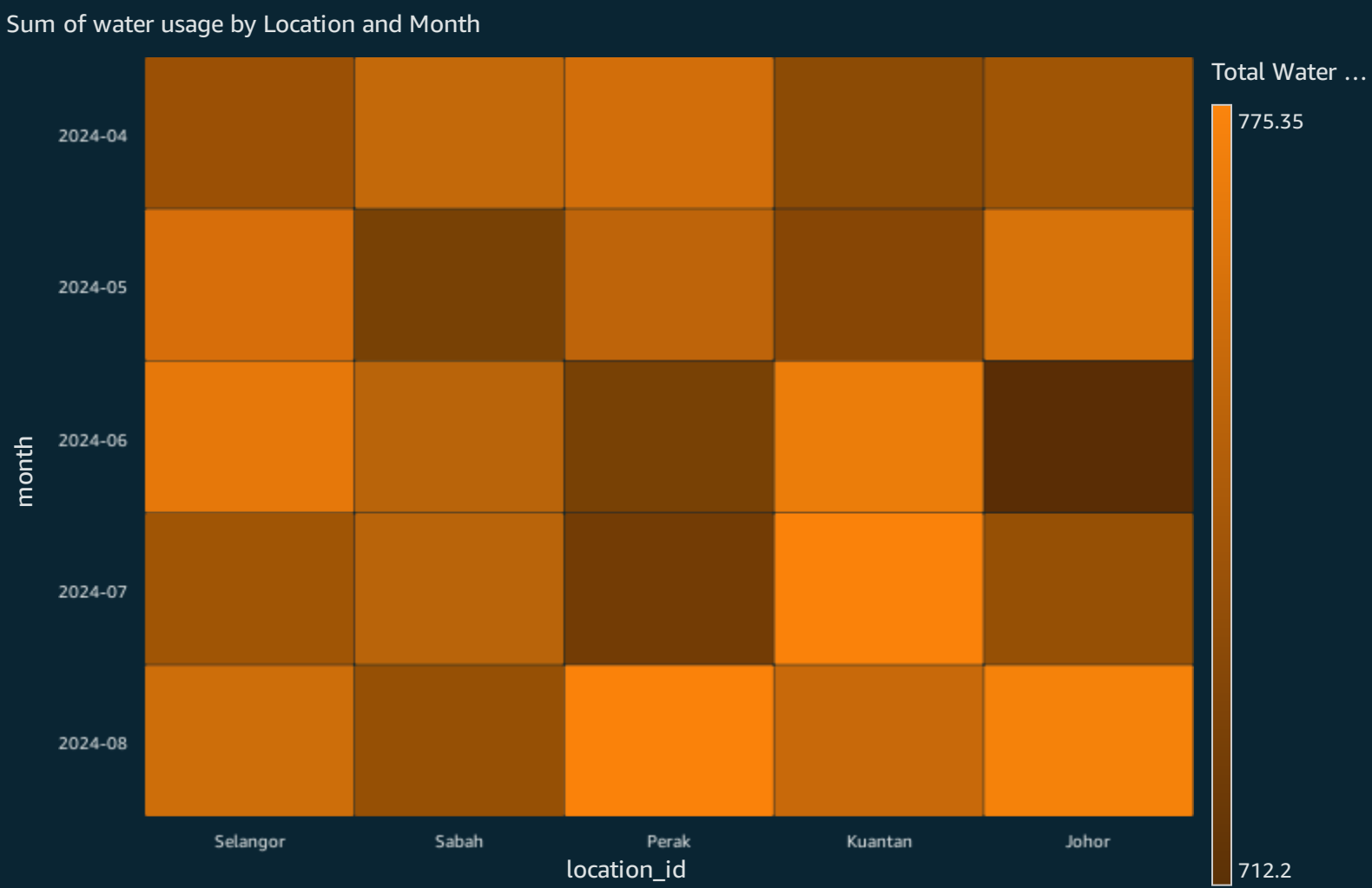
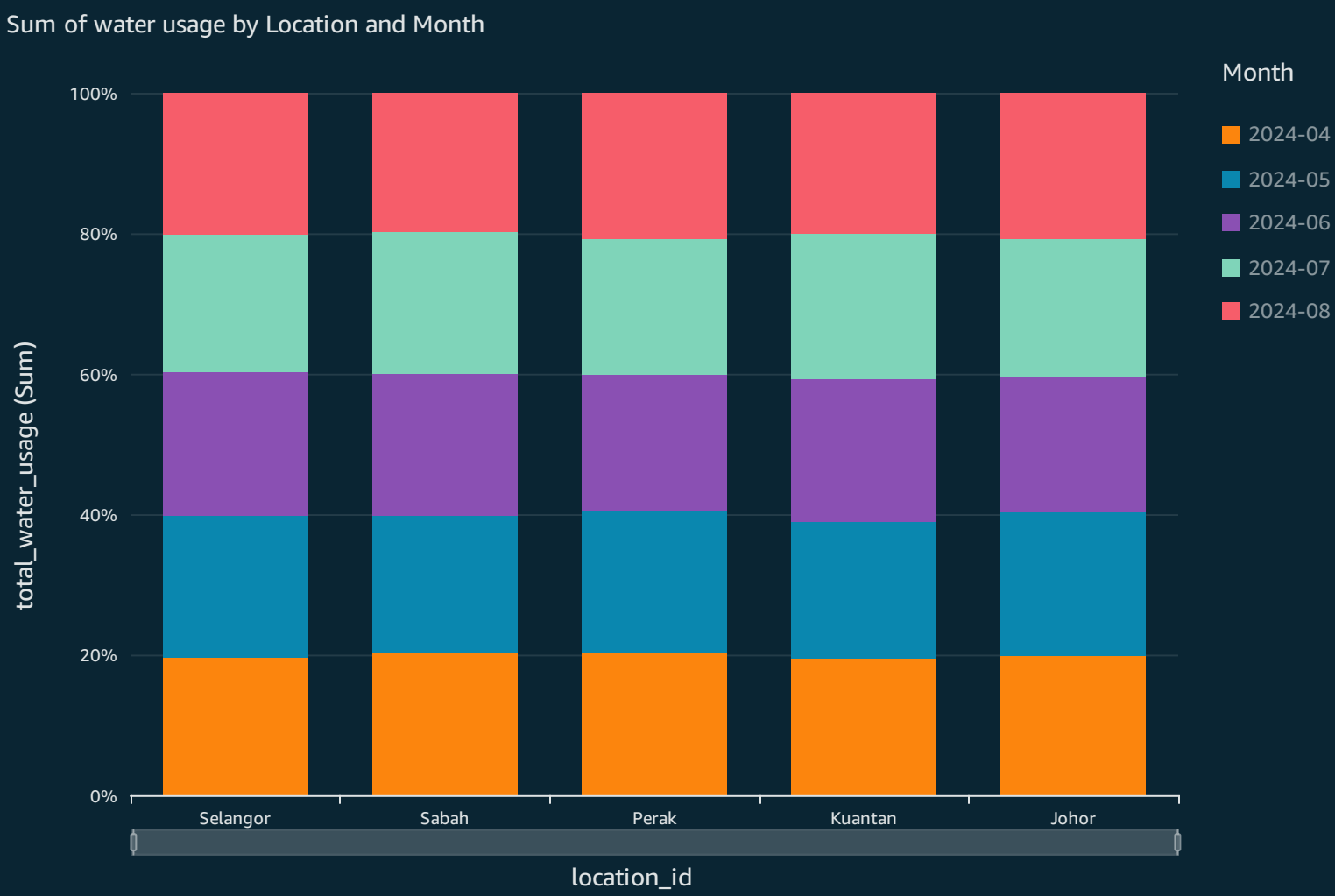
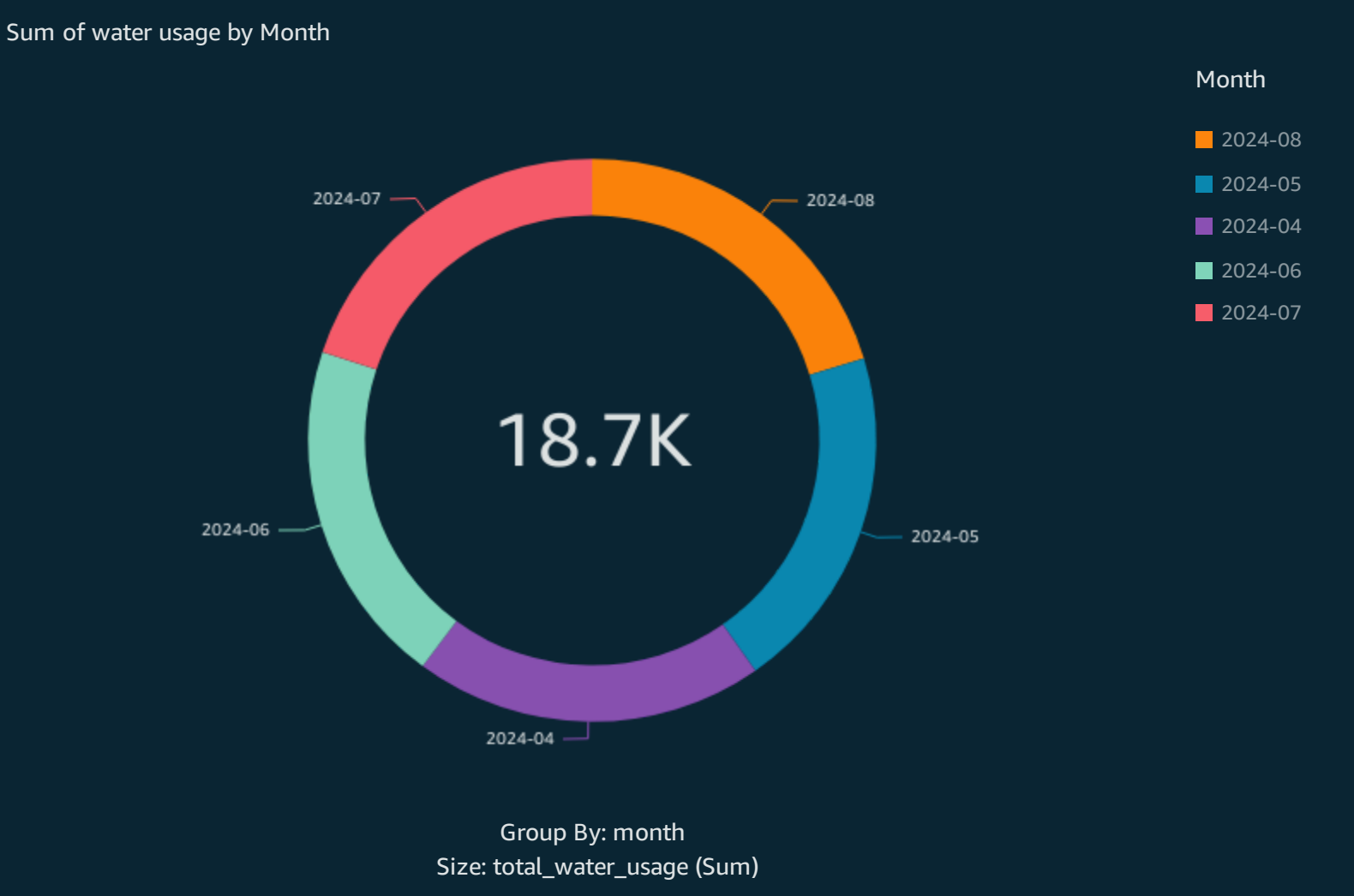
Enhancing Agricultural Efficiency and Sustainability | Optimizing Water Usage, Soil Health, and Crop Monitoring to Improve Farming Outcomes

| | | | | |
|--------------------------------|---|--|---|---|
| Total Aggregation | Top Ranked | Top Ranked | Bottom Ranked | Bottom Ranked |
| Total water usage is 18,699.5. | Top 3 location_id for total total_water_usage are: <ul style="list-style-type: none">Selangor with 3,764.94Kuantan with 3,760.82Perak with 3,733.76 | Top 3 month for total total_water_usage are: <ul style="list-style-type: none">2024-08 with 3,796.982024-05 with 3,730.572024-04 with 3,724.58 | Bottom 3 location_id for total total_water_usage are: <ul style="list-style-type: none">Sabah with 3,715.67Johor with 3,724.31Perak with 3,733.76 | Bottom 3 month for total total_water_usage are: <ul style="list-style-type: none">2024-07 with 3,723.462024-06 with 3,723.912024-04 with 3,724.58 |



Sum of water usage by Month

| Rows | total_water... | wind_speed | temperature | soil_moisture | humidity |
|---------|----------------|------------|-------------|---------------|----------|
| 2024-04 | 3,724.58 | 9.64 | 148.63 | 338.81 | 50.1 |
| 2024-05 | 3,730.57 | 9.84 | 149.07 | 336.72 | 49.64 |
| 2024-06 | 3,723.91 | 10.14 | 151.67 | 337.25 | 50.77 |
| 2024-07 | 3,723.46 | 9.9 | 149.9 | 337.97 | 49.84 |
| 2024-08 | 3,796.98 | 9.93 | 150.24 | 339.56 | 50.42 |



Sum of water usage by Location

| Rows | total_water_usage | humidity | soil_moisture | temperature | wind_speed |
|----------|-------------------|----------|---------------|-------------|------------|
| Johor | 3,724.31 | 50.45 | 337.29 | 149.93 | 9.82 |
| Kuantan | 3,760.82 | 50.26 | 340.29 | 150.74 | 10.29 |
| Perak | 3,733.76 | 50.09 | 338.27 | 150.63 | 9.68 |
| Sabah | 3,715.67 | 50.23 | 337.59 | 148.56 | 10.19 |
| Selangor | 3,764.94 | 49.74 | 336.87 | 149.65 | 9.47 |

