1. *Data Integration:* Incorporate diverse COVID-19 data sources, including infection rates, testing data, and vaccination statistics, into Cognos.

2. *Real-time Dashboards:* Create dynamic dashboards for real-time monitoring of COVID-19 metrics, enabling quick decision-making.

3. *Predictive Analytics:* Utilize Cognos for predictive modeling to forecast potential COVID-19 trends and plan resource allocation accordingly.

4. *Geospatial Analysis:* Leverage geospatial features in Cognos to map the spread of COVID-19, identify hotspots, and assess regional variations.

5. *Data Quality Monitoring:* Implement measures to ensure data accuracy and consistency, critical for reliable analytics and decision-making.

6. *Resource Allocation Optimization:* Analyze healthcare resources, such as hospital beds and ventilators, to optimize allocation based on current and projected COVID-19 cases.

7. *Vaccination Tracking:* Develop reports and dashboards specifically focused on vaccination progress, identifying areas that may need increased vaccination efforts.

8. *Public Communication Dashboards:* Create user-friendly dashboards for public health agencies to communicate COVID-19 updates and guidelines effectively.

9. *Employee Health Monitoring:* Utilize Cognos for tracking employee health within organizations, facilitating a safe return to workplaces.

10. *Adaptive Reporting:* Implement adaptive reporting features to quickly respond to changing COVID-19 scenarios and generate customized reports as needed.

11. *Respiratory symptoms:* The coronavirus (Covid19) has created the biggest global crisis in generation,sending shock waves through health system,economic,and societies around the world .

12. *Environmental Disinfection:* Extensive environmental contamination by SARS-CoV-2 in the environmental of infected patients has been demonstrated in multiple studies in both healthcare and communication setting.

13. *COVID Pandemic Affected:* Rise in poverty level ,food insecurity, disrupted healthcare and other personal factor suc as demise of caregiver and psychological stress.