# INFO8985 In-Class Task 2 – LCBO Monitoring with SigNoz

This task enhances the SigNoz observability setup by adding custom SQL metrics from a PostgreSQL LCBO dataset and enabling built-in PostgreSQL receiver metrics in the OpenTelemetry Collector config.

### 1. sqlquery Receiver

We added four custom SQL queries to collect business-level metrics from the LCBO database.

‘’’  
sqlquery:  
 driver: postgres  
 datasource: "host=db port=5432 user=devtedsuser password=devtedspass sslmode=disable database=lcbo"  
 queries:  
 - sql: "SELECT COUNT(\*) AS bulk\_inventory FROM inventories WHERE quantity >= 1100"  
 metrics:  
 - metric\_name: "lcbo\_bulk\_inventory\_items"  
 value\_column: "bulk\_inventory"  
  
 - sql: "SELECT COUNT(\*) AS budget\_range FROM products WHERE price\_in\_cents >= 800 AND price\_in\_cents < 1500"  
 metrics:  
 - metric\_name: "lcbo\_budget\_product\_range"  
 value\_column: "budget\_range"  
  
 - sql: "SELECT COUNT(\*) AS restock\_candidates FROM inventories WHERE quantity BETWEEN 1 AND 7"  
 metrics:  
 - metric\_name: "lcbo\_restock\_candidate\_count"  
 value\_column: "restock\_candidates"  
  
 - sql: "SELECT ROUND(MIN(price\_in\_cents) / 100.0, 2) AS cheapest\_item FROM products"  
 metrics:  
 - metric\_name: "lcbo\_cheapest\_item\_price"  
 value\_column: "cheapest\_item"

### 2. postgresql Receiver

Enabled built-in PostgreSQL metrics like commits, rollbacks, locks, and database count.

postgresql:  
 endpoint: db:5432  
 transport: tcp  
 username: devtedsuser  
 password: devtedspass  
 collection\_interval: 10s  
 tls:  
 insecure: true  
 databases:  
 - lcbo  
 metrics:  
 postgresql.blocks\_read:  
 enabled: true  
 postgresql.commits:  
 enabled: true  
 postgresql.rollbacks:  
 enabled: true  
 postgresql.database.count:  
 enabled: true  
 postgresql.database.locks:  
 enabled: true

## Screenshots

A screenshot of a computer program

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