**Performing CDC and Initializing a Redis Database Container**

Created a new folder named "Activity13.4" and opened it in Visual Studio Code.

**A screenshot of a computer program

Description automatically generated**

Added code in the **container.py** Python program to create a Redis database container when the **-create** parameter is passed.

A screen shot of a computer program

Description automatically generated

Successfully executed the **container.py** Python program from the command prompt with the **-create** parameter.

A screenshot of a computer screen

Description automatically generated

Docker Desktop shows all three containers (MySQL, MongoDB, and Redis) running.

A screenshot of a computer

Description automatically generated

Successfully executed the **container.py** Python program from the command prompt with the **-init** parameter.

A screenshot of a computer

Description automatically generated

Added code in the **container.py** Python program to delete the Redis database container when the **-delete** parameter is passed.

A screen shot of a computer

Description automatically generated

Created a new file named "redisdb.py" and added the provided code responsible for Redis database operations.

A screenshot of a computer

Description automatically generated

Uncommented the import statement for **redisdb** in the **scheduler.py** Python program.

A screen shot of a computer program

Description automatically generated

Added a call to **redisdb.delete()** in the **clearout()** function.

A screenshot of a computer program

Description automatically generated

Created a new function called **redis()** to read data from MySQL and store the max date stamp in the Redis database.

A computer screen shot of a program code

Description automatically generated

Modified the **verify()** function to read the Last Insert Date from the Redis database and print it to the console.

A screen shot of a computer program

Description automatically generated

Modified the **process\_data()** function to include a call to the **redis()** function.

**A screen shot of a computer program

Description automatically generated**

Successfully ran the scheduler.py Python program from the command prompt and captured a screenshot of the output.

**A computer screen shot of a blue screen

Description automatically generated**

Stopped the scheduler.py program by closing the command prompt window. Executed the container.py command with the -delete parameter to remove the containers.

A screenshot of a computer screen

Description automatically generated

Docker Desktop shows that all three database containers have been removed.

A screenshot of a computer

Description automatically generated