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| Configure Kafka |
| * Current checked in development is interacting with Kafka running locally on port 9092 on topic test. * Change configurations in App.config in Producer and Consumer * **Consumer**      * + Update the configuration as per your setup.   + Offset can have either latest or earliest as indicated. * **Producer**      * + Only 2 settings for Producer. * Do confirm that the bootstrapserver and topicname values in both Producer and Consumer is same. |
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| Configure Database |
| * The development requires connection string. As indicated in the test, the table has no unique identifier. You can use the same table which has some test data or create a new table using the following create query.   /\*\*\*\*\*\* Object: Table [dbo].[DataDump] Script Date: 02/05/2023 23:38:10 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  CREATE TABLE [dbo].[DataDump](  [key] [varchar](20) NOT NULL,  [time] [datetime] NOT NULL,  [value] [float] NOT NULL  ) ON [PRIMARY]  GO   * Do note, the table name is DataDump. If name is changed, be sure to update the table name in Consumer configuration and set the sink to sql. * **Consumer**      * Change the connectionstring to point to your MS SQL database. * If table name is changed, then update tablename and set the sink value to **sql**.   + The value sql points to implementation with bulk insert queries.   + The value entity points to Entity framework, the dynamic table is not yet coded! |
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| To Run the development from Visual Studio |
| * Build the Application * Right click on any project and select * This opens a window * In this window select Multiple startup projects radio button and select Producer and Consumer as shown below      * Hit Apply and Ok to close the Window. * You are now set to run the multiple projects. * Hit Ctrl + F5 and it will launch 2 console windows, 1 for Producer and 1 for Consumer. * The Consumer window launch connect and then there will be flurry of console outputs. * The Producer window will output the random data that it is publishing. |
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| To run projects independently from Console |
| * Go to respective bin build and net6.0 folder for Producer and Consumer * Path \<Producer or Consumer>\bin\Debug\net6.0 * Double click on Producer.exe and Consumer.exe to launch apps. |
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| To Run Excel Plugin |
| * The plugin development is a rip off from an existing project in Github * The code is formulated to suite the immediate requirement. * Open the solution in Visual Studio and build it. * Open cmd in administrator mode and run the register command to register the macro. * Open Excel * In a cell enter   + = RTD(“kafka”,,”localhost:9092”,”test”,”key1”)      * + Localhost:9092 is host for Kafka, test is topic name and key1 is the publishing key. |
| * The codebase needs cleanup and logic to get the first item when Excel Open. |