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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 is checked in with my temporary Azure SQL database for this task. 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. |