

Kafka Projects

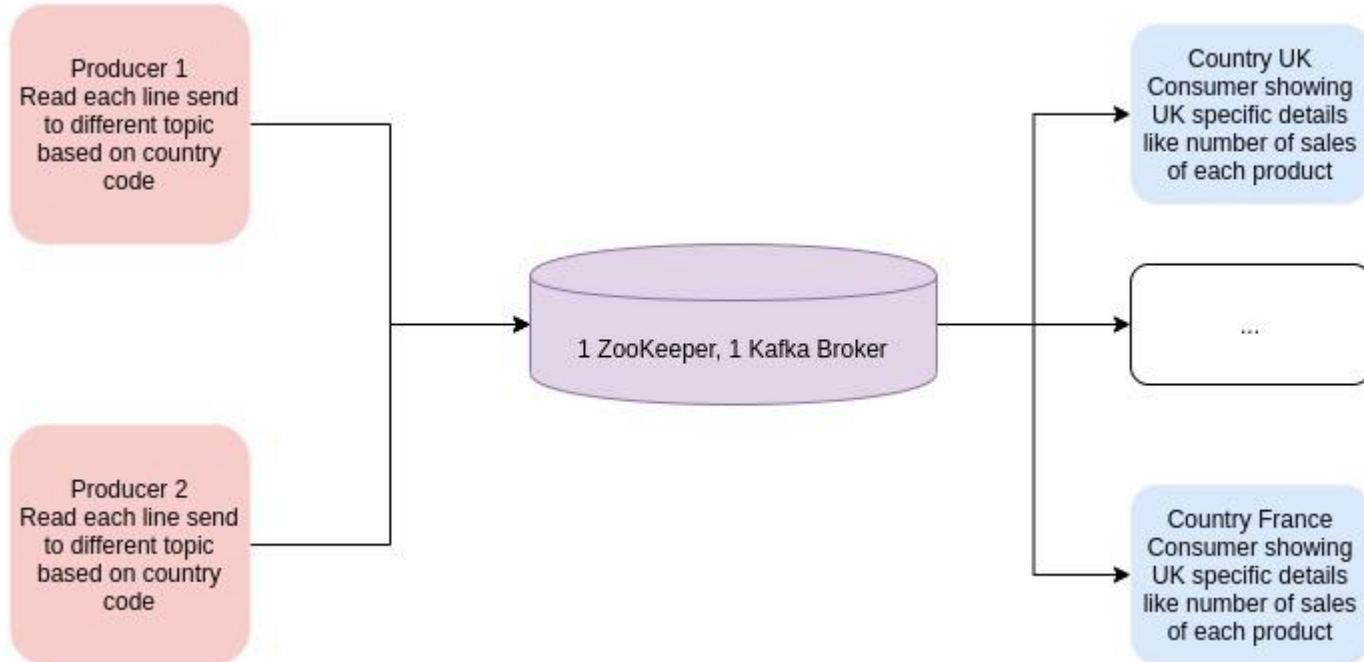
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Project 1 (Day1)

- Producer reads retails data from xls file.
- Sends data to different topic based on country information.
- Different Country data is consumed by different consumers.
- UK has lot of data, try for consumer group (optional)
- Each consumer has to show useful country specific information.
- Try to develop generic code for all consumers.
- Suggestion : Develop using 1st example of producer consumer. Use POJO class
- Data - <https://github.com/edyoda/data-science-complete-tutorial/blob/master/Data/Online%20Retail.xlsx>

Topology diagram



Project 2 (Day 1)

- Producer reads retails data from xls file.
- Sends data to different topic based on country information.
- Different Country data is consumed by different consumers.
- Each consumer has to show useful country specific information.
- Try to develop generic code for all consumers.
- Use microservices for producer & consumer.
- Suggestion : 2nd Project
- Data - <https://github.com/edyoda/data-science-complete-tutorial/blob/master/Data/Online%20Retail.xlsx>

Data

Activities LibreOffice Calc Thu 09:20 Online Retail.xlsx - LibreOffice Calc

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Calibri 11 22745

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|----|-------|-----------|--------------------|----------|----------------|-----------|------------|----------------|---|---|---|---|---|
| | IceNo | StockCode | Description | Quantity | InvoiceDate | UnitPrice | CustomerID | Country | | | | | |
| 1 | ### | 85123A | WHITE HANGING HE | 6 | 01/12/10 08:26 | 2.55 | 17850 | United Kingdom | | | | | |
| 2 | ### | 71053 | WHITE METAL LANT | 6 | 01/12/10 08:26 | 3.39 | 17850 | United Kingdom | | | | | |
| 3 | ### | 84406B | CREAM CUPID HEAR | 8 | 01/12/10 08:26 | 2.75 | 17850 | United Kingdom | | | | | |
| 4 | ### | 84029G | KNITTED UNION FLA | 6 | 01/12/10 08:26 | 3.39 | 17850 | United Kingdom | | | | | |
| 5 | ### | 84029E | RED WOOLLY HOTT | 6 | 01/12/10 08:26 | 3.39 | 17850 | United Kingdom | | | | | |
| 6 | ### | 22752 | SET 7 BABUSHKA N | 2 | 01/12/10 08:26 | 7.65 | 17850 | United Kingdom | | | | | |
| 7 | ### | 21730 | GLASS STAR FROST | 6 | 01/12/10 08:26 | 4.25 | 17850 | United Kingdom | | | | | |
| 8 | ### | 22633 | HAND WARMER UNI | 6 | 01/12/10 08:28 | 1.85 | 17850 | United Kingdom | | | | | |
| 9 | ### | 22632 | HAND WARMER RED | 6 | 01/12/10 08:28 | 1.85 | 17850 | United Kingdom | | | | | |
| 10 | ### | 84879 | ASSORTED COLOUR | 32 | 01/12/10 08:34 | 1.69 | 13047 | United Kingdom | | | | | |
| 11 | ### | 22745 | POPPY'S PLAYHOU | 6 | 01/12/10 08:34 | 2.11 | 13047 | United Kingdom | | | | | |
| 12 | ### | 22748 | POPPY'S PLAYHOU | 6 | 01/12/10 08:34 | 2.11 | 13047 | United Kingdom | | | | | |
| 13 | ### | 22749 | FELTCRAFT PRINCE | 8 | 01/12/10 08:34 | 3.75 | 13047 | United Kingdom | | | | | |
| 14 | ### | 22310 | IVORY KNITTED MU | 6 | 01/12/10 08:34 | 1.65 | 13047 | United Kingdom | | | | | |
| 15 | ### | 84969 | BOX OF 6 ASSORTE | 6 | 01/12/10 08:34 | 4.25 | 13047 | United Kingdom | | | | | |
| 16 | ### | 22623 | BOX OF VINTAGE JIG | 3 | 01/12/10 08:34 | 4.95 | 13047 | United Kingdom | | | | | |
| 17 | ### | 22622 | BOX OF VINTAGE AL | 2 | 01/12/10 08:34 | 9.95 | 13047 | United Kingdom | | | | | |
| 18 | ### | 21754 | HOME BUILDING BL | 3 | 01/12/10 08:34 | 5.95 | 13047 | United Kingdom | | | | | |
| 19 | ### | 21755 | LOVE BUILDING BLO | 3 | 01/12/10 08:34 | 5.95 | 13047 | United Kingdom | | | | | |
| 20 | ### | 21777 | RECIPE BOX WITH M | 4 | 01/12/10 08:34 | 7.95 | 13047 | United Kingdom | | | | | |
| 21 | ### | 48187 | DOORMAT NEW EN | 4 | 01/12/10 08:34 | 7.95 | 13047 | United Kingdom | | | | | |
| 22 | ### | 22960 | JAM MAKING SET W | 6 | 01/12/10 08:34 | 4.25 | 13047 | United Kingdom | | | | | |
| 23 | ### | 22913 | RED COAT RACK PA | 3 | 01/12/10 08:34 | 4.95 | 13047 | United Kingdom | | | | | |
| 24 | ### | 22912 | YELLOW COAT RACK | 3 | 01/12/10 08:34 | 4.95 | 13047 | United Kingdom | | | | | |
| 25 | ### | 22914 | BLUE COAT RACK PA | 3 | 01/12/10 08:34 | 4.95 | 13047 | United Kingdom | | | | | |
| 26 | ### | 21756 | BATH BUILDING BLO | 3 | 01/12/10 08:34 | 5.95 | 13047 | United Kingdom | | | | | |
| 27 | ### | 22728 | ALARM CLOCK BAK | 24 | 01/12/10 08:45 | 3.75 | 12583 | France | | | | | |
| 28 | ### | 22727 | ALARM CLOCK BAK | 24 | 01/12/10 08:45 | 3.75 | 12583 | France | | | | | |
| 29 | ### | 22726 | ALARM CLOCK BAK | 12 | 01/12/10 08:45 | 3.75 | 12583 | France | | | | | |
| 30 | ### | 21724 | PANDA AND BUNNIE | 12 | 01/12/10 08:45 | 0.85 | 12583 | France | | | | | |
| 31 | ### | 21883 | STARS GIFT TAPE | 24 | 01/12/10 08:45 | 0.65 | 12583 | France | | | | | |
| 32 | ### | 10002 | INFLATABLE POLITIO | 48 | 01/12/10 08:45 | 0.85 | 12583 | France | | | | | |
| 33 | ### | 21791 | VINTAGE HEADS AN | 24 | 01/12/10 08:45 | 1.25 | 12583 | France | | | | | |
| 34 | ### | 21035 | SET/2 RED RETROS | 18 | 01/12/10 08:45 | 2.95 | 12583 | France | | | | | |
| 35 | ### | 22326 | ROUND SNACK BOX | 24 | 01/12/10 08:45 | 2.95 | 12583 | France | | | | | |
| 36 | ### | 22629 | SPACEBOY LUNCH B | 24 | 01/12/10 08:45 | 1.95 | 12583 | France | | | | | |
| 37 | ### | 22659 | LUNCH BOX I LOVE | 24 | 01/12/10 08:45 | 1.95 | 12583 | France | | | | | |
| 38 | ### | 22631 | CIRCUS PARADE LUN | 24 | 01/12/10 08:45 | 1.95 | 12583 | France | | | | | |
| 39 | ### | 22661 | CHARLOTTE BAG DO | 20 | 01/12/10 08:45 | 0.85 | 12583 | France | | | | | |
| 40 | ### | 21731 | RED TOADSTOOL L | 24 | 01/12/10 08:45 | 1.65 | 12583 | France | | | | | |

Online Retail

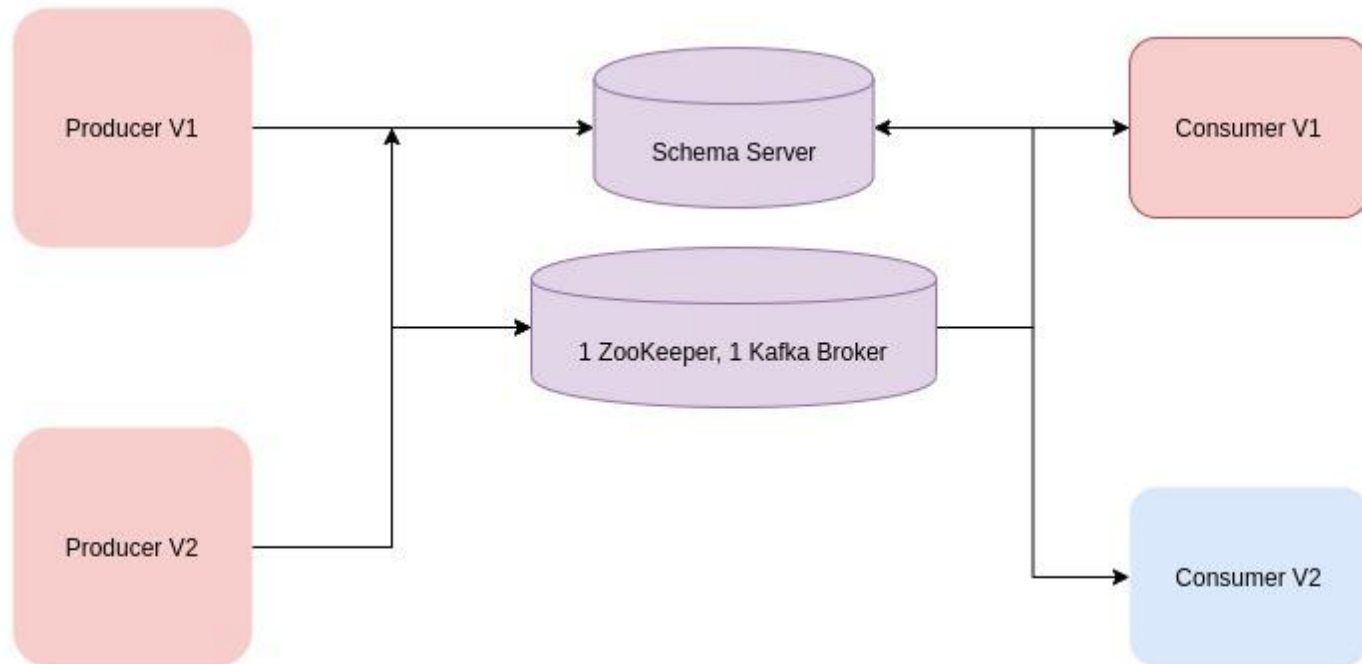
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Sheet 1 of 1 PageStyle_Online Retail English (India) Average: 22745; Sum: 22745 100%

Project 3 (Day2)

- Transaction Message V1 - (Description, Quantity & Unit Price)
- Use Schema Server.
- Have the schema in avro format.
- Producer sending V1 message & Consumer Receiving V1.
- Now, we have Transaction Message V2 (Description, Quantity,Unit Price, Customer Id)
- Develop a new Producer & Consumer for V2
- The old consumer should continue to receive new messages.

Topology Diagram



Project Submission Link

<https://docs.google.com/spreadsheets/d/1N3ob3bx5INfo6fxukQBWO3UXhTVsFZcuENr-tf7fxlQ/edit?usp=sharing>