## 1. Producer:

```
1. Prouncer.

| raykah@HPG732-009: /mnt/d/linux/stream_processing_fraud_detection_new/producer
| Id': 73, 'logTimestamp': 1651941251000, 'devideId': 'OS', 'logActivity': 'Logout'}
| Id': 21, 'logTimestamp': 1653197162000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 43, 'logTimestamp': 1652280957000, 'devideId': 'Windows Phone', 'logActivity': 'Logont'}
| Id': 46, 'logTimestamp': 1652280957000, 'devideId': 'Android', 'logActivity': 'Search'}
| Id': 80, 'logTimestamp': 1652519130000, 'devideId': 'Android', 'logActivity': 'Logout'}
| Id': 5, 'logTimestamp': 1651549301000, 'devideId': 'Windows Phone', 'logActivity': 'Search'}
| Id': 40, 'logTimestamp': 1651549301000, 'devideId': 'Windows Phone', 'logActivity': 'Search'}
| Id': 42, 'logTimestamp': 1651803626000, 'devideId': 'OS', 'logActivity': 'Payment'}
| Id': 42, 'logTimestamp': 1651803626000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 57, 'logTimestamp': 165194066000, 'devideId': 'Windows Phone', 'logActivity': 'Payment'}
| Id': 68, 'logTimestamp': 1651377919000, 'devideId': 'Android', 'logActivity': 'Payment'}
| Id': 61, 'logTimestamp': 16519408858000, 'devideId': 'OS', 'logActivity': 'Search'}
| Id': 13, 'logTimestamp': 1651948858000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 64, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
| Id': 65, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActiv
             'Id': 57, 'logTimestamp': 16513779000, 'devideId': 'Android', 'logActivity': 'Menu'}
'Id': 68, 'logTimestamp': 1651377919000, 'devideId': 'Android', 'logActivity': 'Payment'}
'Id': 68, 'logTimestamp': 1651387919000, 'devideId': 'OS', 'logActivity': 'Menu'}
'Id': 33, 'logTimestamp': 1651987064000, 'devideId': 'OS', 'logActivity': 'Search'}
'Id': 18, 'logTimestamp': 1651987064000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 64, 'logTimestamp': 1652653146000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 87, 'logTimestamp': 1652257955000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 88, 'logTimestamp': 165225799000, 'devideId': 'OS', 'logActivity': 'Logout'}
'Id': 88, 'logTimestamp': 1653617827000, 'devideId': 'OS', 'logActivity': 'Logout'}
'Id': 90, 'logTimestamp': 1653617827000, 'devideId': 'Android', 'logActivity': 'Logout'}
'Id': 27, 'logTimestamp': 165259399000, 'devideId': 'Android', 'logActivity': 'Menu'}
'Id': 27, 'logTimestamp': 165259399000, 'devideId': 'Android', 'logActivity': 'Yagment'}
'Id': 80, 'logTimestamp': 165259399000, 'devideId': 'Windows Phone', 'logActivity': 'Yagment'}
'Id': 80, 'logTimestamp': 1652601593000, 'devideId': 'Windows Phone', 'logActivity': 'Yagment'}
'Id': 81, 'logTimestamp': 1652601593000, 'devideId': 'Windows Phone', 'logActivity': 'Yagment'}
'Id': 82, 'logTimestamp': 16536472378000, 'devideId': 'Android', 'logActivity': 'Logout'}
'Id': 58, 'logTimestamp': 165365472378000, 'devideId': 'Android', 'logActivity': 'Logout'}
'Id': 57, 'logTimestamp': 1653657829000, 'devideId': 'Android', 'logActivity': 'Logout'}
'Id': 58, 'logTimestamp': 1653630600, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 58, 'logTimestamp': 1653184772000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 97, 'logTimestamp': 165328383000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}
'Id': 99, 'logTimestamp': 1653358296000, 'devideId': 'Windows Phone', 'logActivity': 'Payment'}
'Id': 100, 'logTimestamp': 1653588358000, 'devideId': '
```

## 2. Consumer:

```
↑ raykah@HPG732-009: /mnt/d/linux/stream_processing_fraud_detection_new
```

```
decords = {'Id': 101, 'logTimestamp': 1651379115000, 'devideId': 'Android', 'logActivity': 'Search'}
User Predict: Fraud
Records = {'Id': 43, 'logTimestamp': 1653037725000, 'devideId': 'Android', 'logActivity': 'Menu'}
/ser Predict: Fraud
Records = {'Id': 88, 'logTimestamp': 1651811618900, 'devideId': 'OS', 'logActivity': 'Login'}
User Predict: Fraud

Records = {'Id': 51, 'logTimestamp': 1651637396000, 'devideId': 'Windows Phone', 'logActivity': 'Payment'}

User Predict: Fraud

Records = {'Id': 55, 'logTimestamp': 1651118551000, 'devideId': 'Android', 'logActivity': 'Login'}
decords = {'Id': 46, 'logTimestamp': 1651352734000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}

User Predict: Fraud
Records = {'Id': 12, 'logTimestamp': 1652717736000, 'devideId': 'OS', 'logActivity': 'Menu'}
User Predict: Fraud
User Fredict: Fraud

Records = {'Id': 53, 'logTimestamp': 1652007349000, 'devideId': 'OS', 'logActivity': 'Logout'}

Jser Predict: Fraud

Records = {'Id': 96, 'logTimestamp': 1653608569000, 'devideId': 'Android', 'logActivity': 'Search'}

Jser Predict: Fraud

Records = {'Id': 36, 'logTimestamp': 1653608569000, 'devideId': 'Android', 'logActivity': 'Search'}

Records = {'Id': 36, 'logTimestamp': 1653608569000, 'devideId': 'Android', 'logActivity': 'Search'}
lecords = {'Id': 76, 'logTimestamp': 1653418528000, 'devideId': 'Windows Phone', 'logActivity': 'Payment'}
Jser Predict: Fraud

Records = {'Id': 28, 'logTimestamp': 1653245908000, 'devideId': 'Windows Phone', 'logActivity': 'Search'}

Jser Predict: Fraud
Records = {'Id': 59, 'logTimestamp': 1652234189000, 'devideId': 'OS', 'logActivity': 'Search'}

Jser Predict: Fraud
Records = {'Id': 73, 'logTimestamp': 1652414073000, 'devideId': 'OS', 'logActivity': 'Search'}
User Predict: Fraud
Records = {'Id': 54, 'logTimestamp': 1651801969000, 'devideId': 'Windows Phone', 'logActivity': 'Search'}
Jser Predict: Fraud
Records = {'Id': 98, 'logTimestamp': 1651204744000, 'devideId': 'Android', 'logActivity': 'Menu'}
User Predict: Fraud
Records = {'Id': 21, 'logTimestamp': 1651636949000, 'devideId': 'Android', 'logActivity': 'Login'}
User Predict: Fraud

Records = {'Id': 6, 'logTimestamp': 1653550568000, 'devideId': 'OS', 'logActivity': 'Search'}

User Predict: Fraud

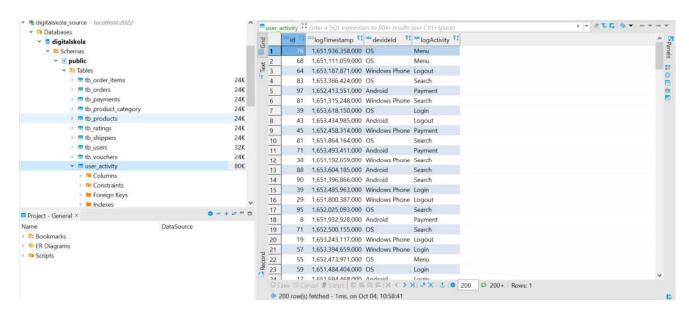
Records = {'Id': 0, 'logTimestamp': 1653303730000, 'devideId': 'Windows Phone', 'logActivity': 'Logout'}

User Predict: Fraud

Records = {'Id': 55, 'logTimestamp': 1652461411000, 'devideId': 'Windows Phone', 'logActivity': 'Payment'}

User Predict: Fraud
```

## 3. Tabel user\_activity



## 4. Tabel user\_fraud

