

KTable aggregate()

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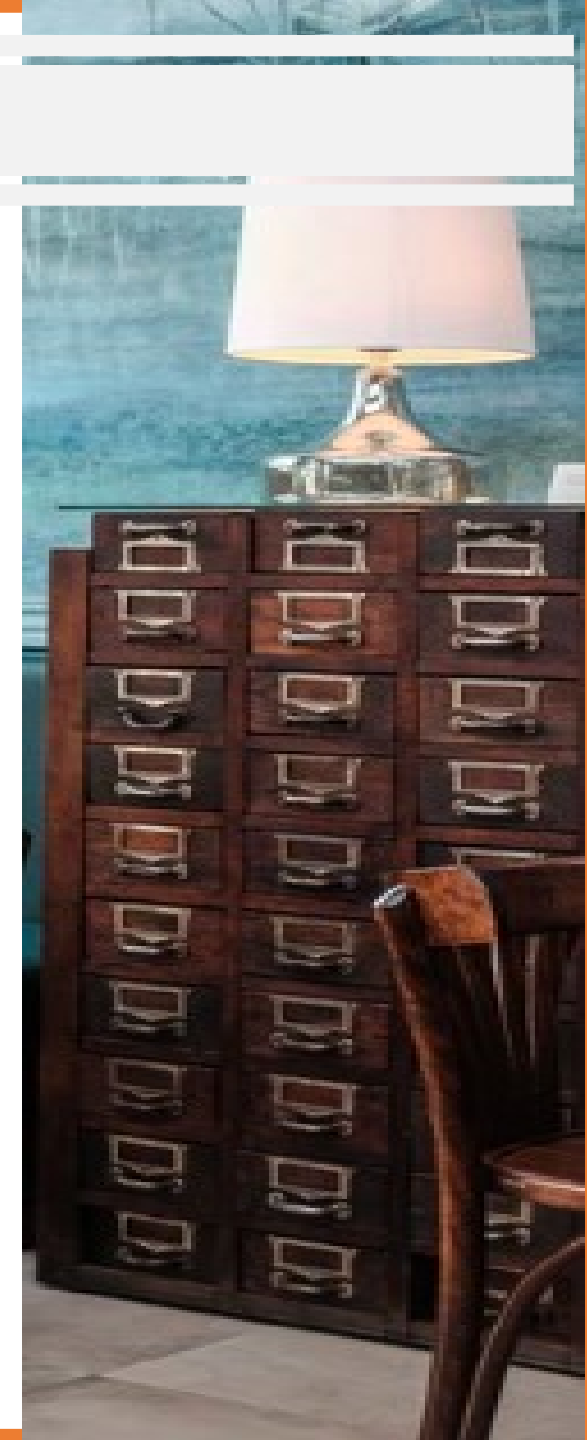
Problem Statement

Create a Kafka topic as employees and following messages to the topic.

```
101:{"id": "101", "name": "Prashant", "department": "engineering", "salary": 5000}  
102:{"id": "102", "name": "John", "department": "accounts", "salary": 8000}  
103:{"id": "103", "name": "Abdul", "department": "engineering", "salary": 3000}  
104:{"id": "104", "name": "Melinda", "department": "support", "salary": 7000}  
105:{"id": "105", "name": "Jimmy", "department": "support", "salary": 6000}
```

Create a Kafka Streams application to compute the average salary for each department. Send following messages to simulate the department transfer and observe the updated aggregates.

```
101:{"id": "101", "name": "Prashant", "department": "support", "salary": 5000}  
104:{"id": "104", "name": "Melinda", "department": "engineering", "salary": 7000}
```



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```
101:{"id": "101", "name": "Prashant", "department": "engineering", "salary": 5000}  
102:{"id": "102", "name": "John", "department": "accounts", "salary": 8000}  
103:{"id": "103", "name": "Abdul", "department": "engineering", "salary": 3000}  
104:{"id": "104", "name": "Melinda", "department": "support", "salary": 7000}  
105:{"id": "105", "name": "Jimmy", "department": "support", "salary": 6000}
```



```
101:{"id": "101", "name": "Prashant", "department": "support", "salary": 5000}
```



Group Key	Value	Type
accounts	{"id": "102", "name": "John", "department": "accounts", "salary": 8000}	added
enginerring	{"id": "101", "name": "Prashant", "department": "engineering", "salary": 5000}	deleted
enginerring	{"id": "101", "name": "Prashant", "department": "engineering", "salary": 5000}	added
support	{"id": "104", "name": "Melinda", "department": "support", "salary": 7000}	added
support	{"id": "105", "name": "Jimmy", "department": "support", "salary": 6000}	added
support	{"id": "101", "name": "Prashant", "department": "engineering", "salary": 5000}	added