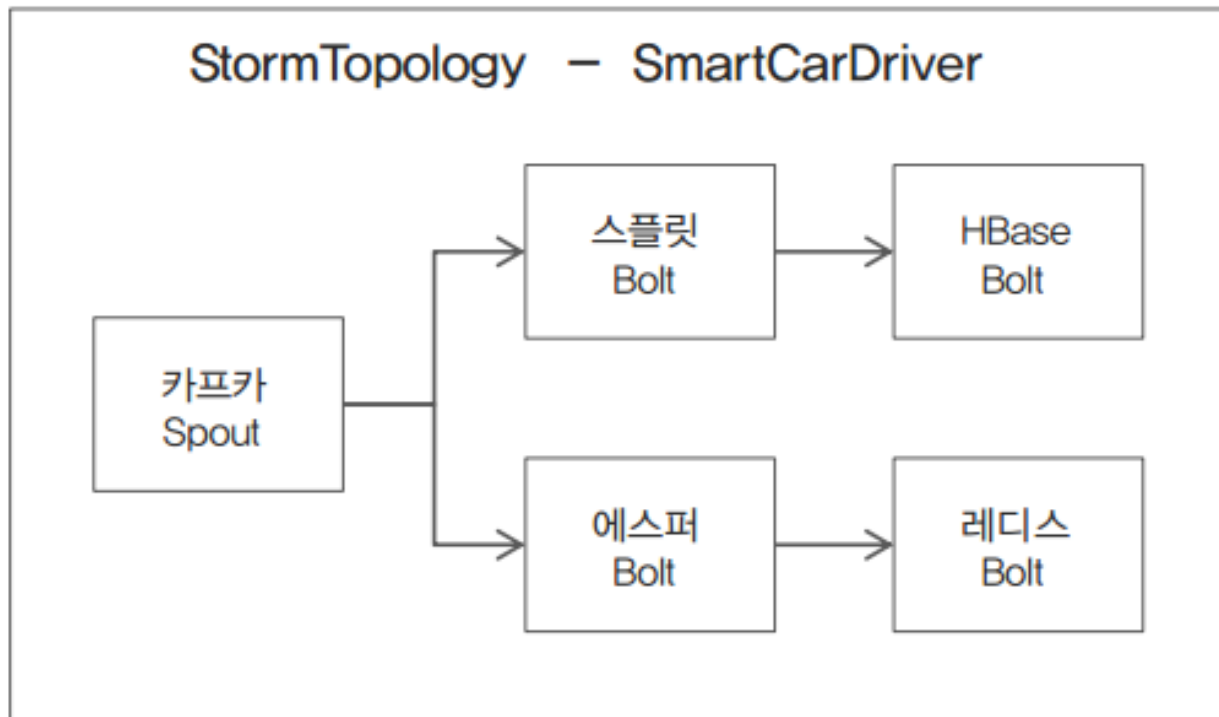
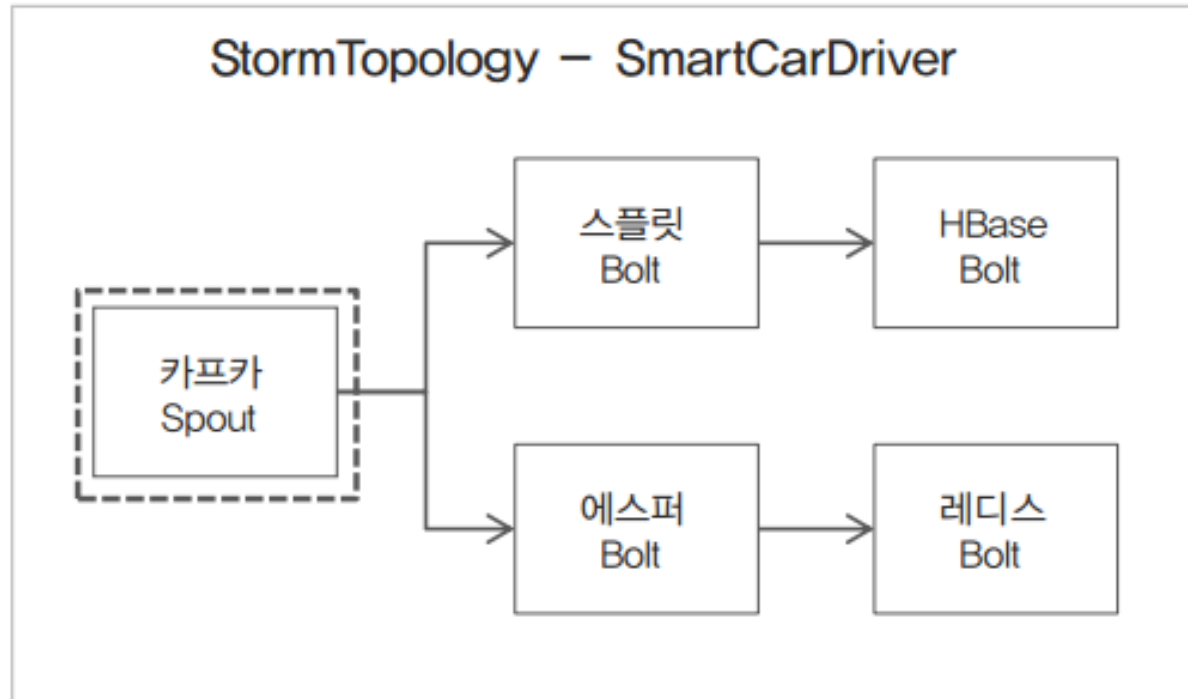


## 5.5 실시간 적재 파일럿 실행 3단계 - 적재 기능



## 5.5 실시간 적재 파일럿 실행 3단계 - 적재 기능

### 카프카 Spout 기능 구현 (1/4)



## 5.5 실시간 적재 파일럿 실행 3단계 - 적재 기능

### 카프카 Spout 기능 구현 (2/4)

예제 5.2 카프카 Spout 생성 - SmartCarDriverTopology.java

```
TopologyBuilder driverCarTopologyBuilder = new TopologyBuilder();
```

```
String bootstrapServers = "server02.hadoop.com:9092";
```

```
String topic = "SmartCar-Topic";
```

```
Config conf = new Config();  
conf.setMaxSpoutPending(20);  
conf.setNumWorkers(1);
```

```
KafkaSpoutRetryService kafkaSpoutRetryService = new KafkaSpoutRetryExponentialBackoff(  
    KafkaSpoutRetryExponentialBackoff.TimeInterval.microSeconds(500),  
    KafkaSpoutRetryExponentialBackoff.TimeInterval.milliSeconds(2),  
    Integer.MAX_VALUE,  
    KafkaSpoutRetryExponentialBackoff.TimeInterval.seconds(10));
```

## 5.5 실시간 적재 파일럿 실행 3단계 - 적재 기능

### 카프카 Spout 기능 구현 (3/4)

```
String zkHost = "server02.hadoop.com:2181";  
TopologyBuilder driverCarTopologyBuilder = new TopologyBuilder();  
  
BrokerHosts brkBost = new ZkHosts(zkHost);  
String topicName = "SmartCar-Topic";  
String zkPathName = "/SmartCar-Topic";  
  
SpoutConfig spoutConf = new SpoutConfig(brkBost, topicName, zkPathName, UUID.randomUUID().  
toString());  
  
spoutConf.scheme = new SchemeAsMultiScheme(new StringScheme());  
spoutConf.useStartOffsetTimeIfOffsetOutOfRange=true;  
spoutConf.startOffsetTime=kafka.api.OffsetRequest.LatestTime();  
  
KafkaSpout kafkaSpout = new KafkaSpout(spoutConf);
```

## 5.5 실시간 적재 파일럿 실행 3단계 - 적재 기능

### 카프카 Spout 기능 구현 (4/4)

```
driverCarTopologyBuilder.setSpout("kafkaSpout", kafkaSpout, 1);
```

③

```
driverCarTopologyBuilder.setBolt("splitBolt", new SplitBolt(),1).allGrouping("kafkaSpout");
```

```
driverCarTopologyBuilder.setBolt("esperBolt", new EsperBolt(),1).allGrouping("kafkaSpout");
```

④