





Oracle 技术嘉年华

Oracle Technology Carnival 2016

数据·平台·智能 - 新时代的技术前沿







Sharing-JDBC

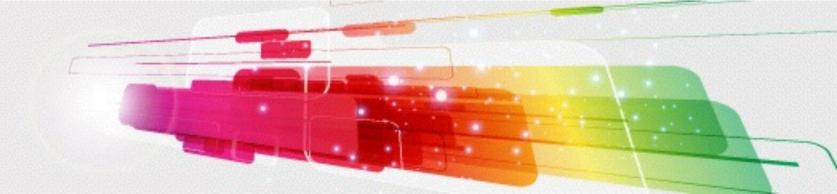
当当开源分库分表中间层

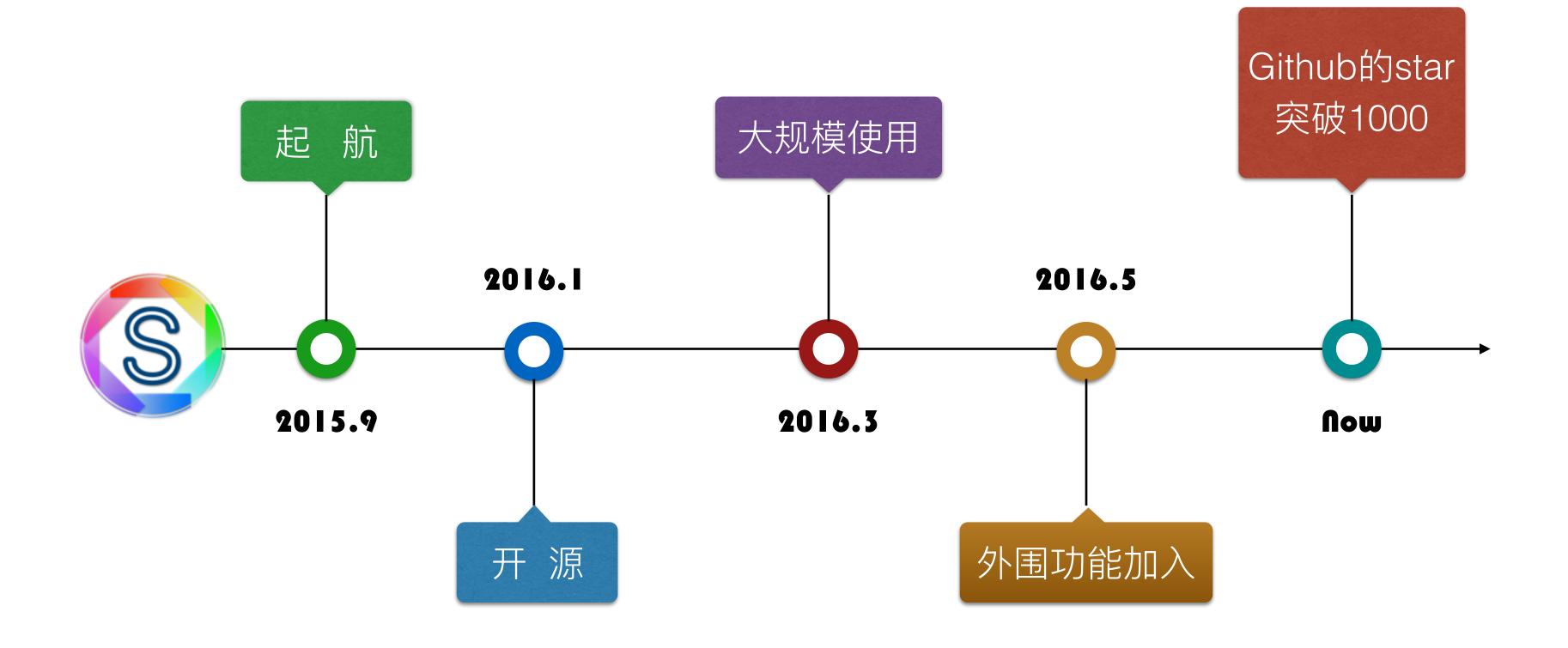








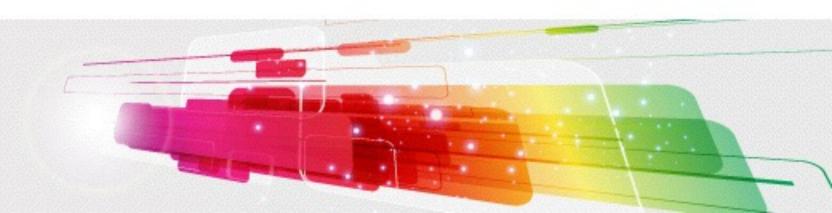












Sharding- JDBC 是什么?

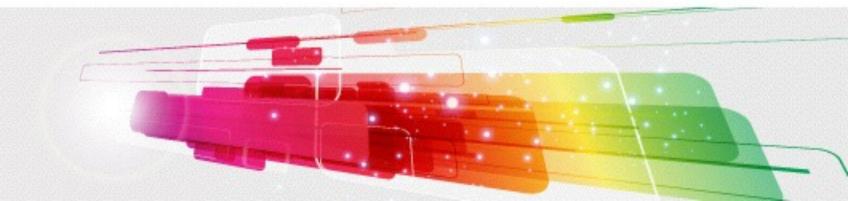










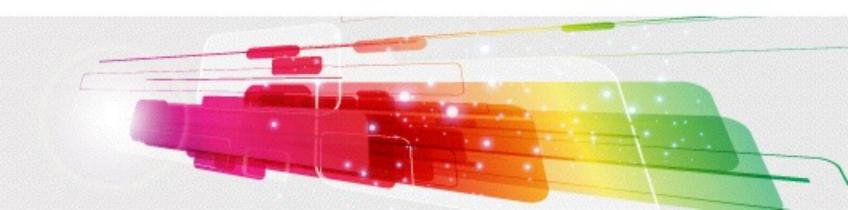


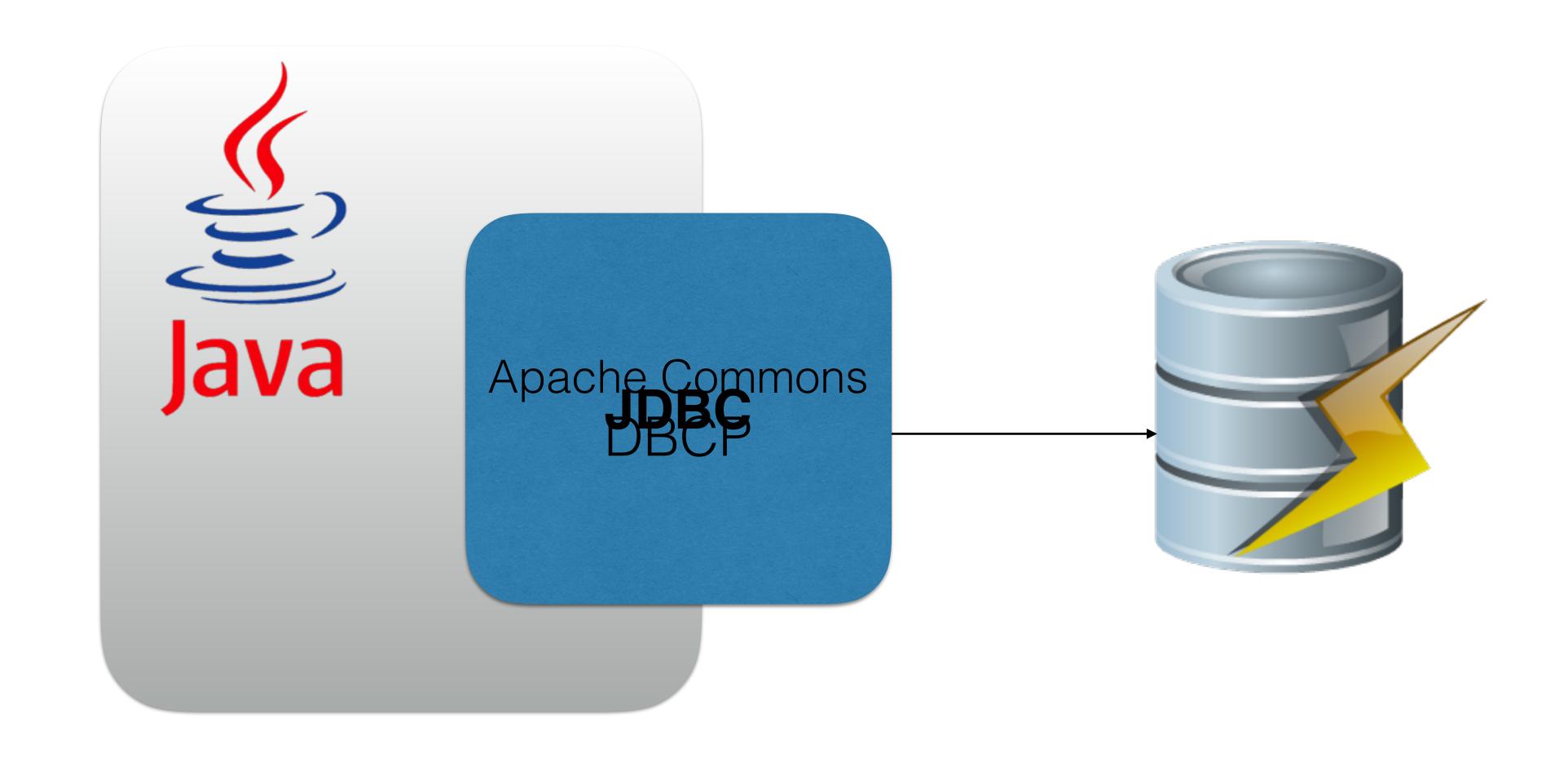
JDBC







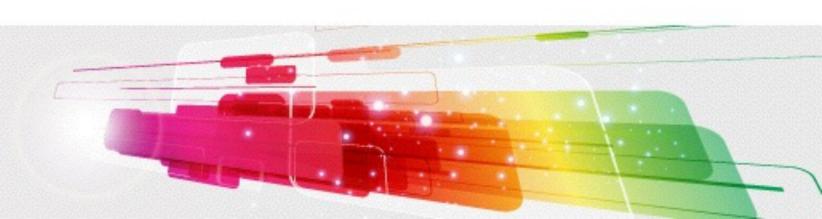


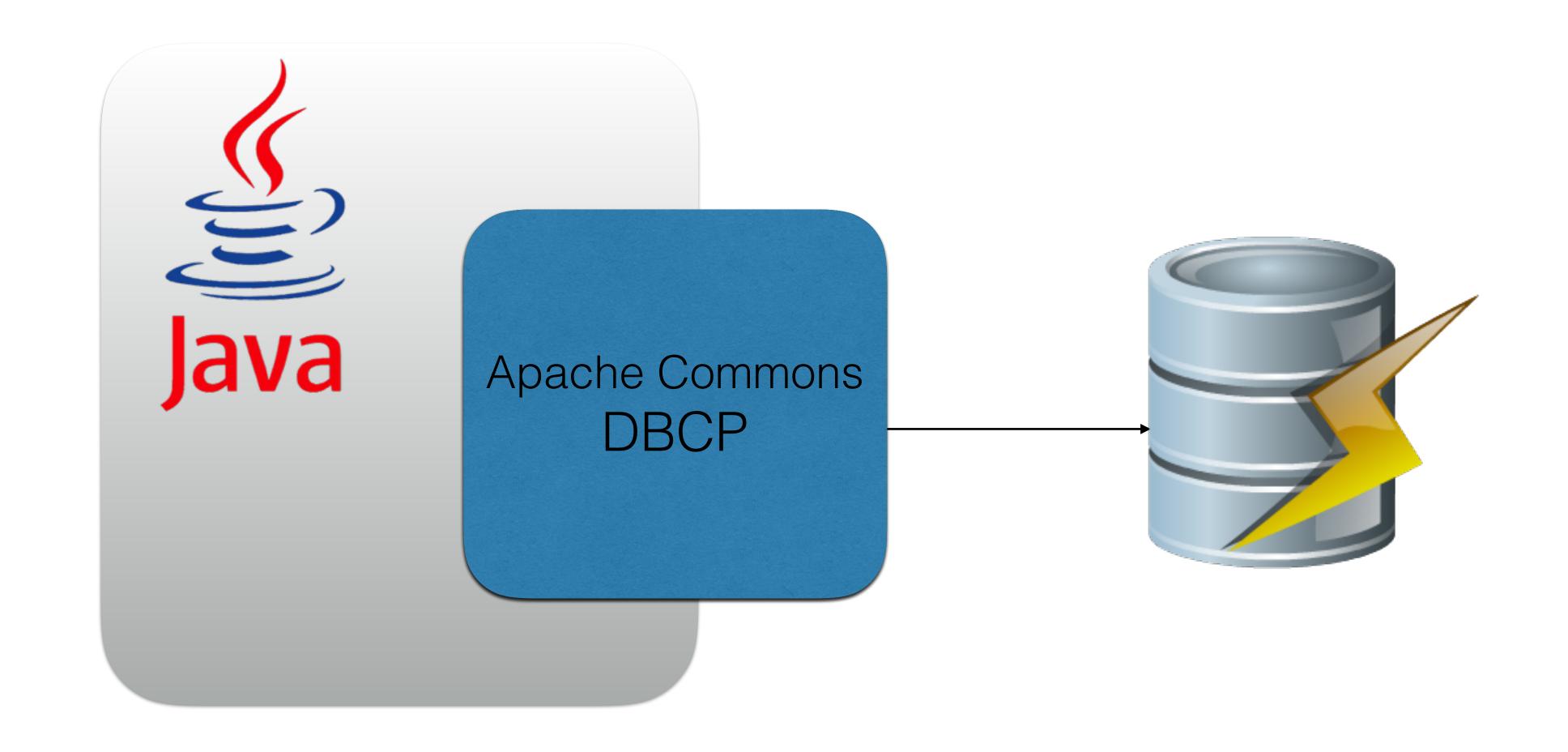


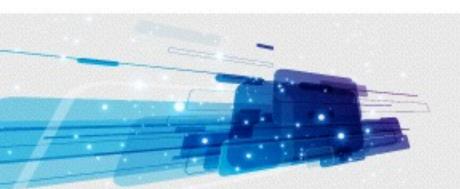






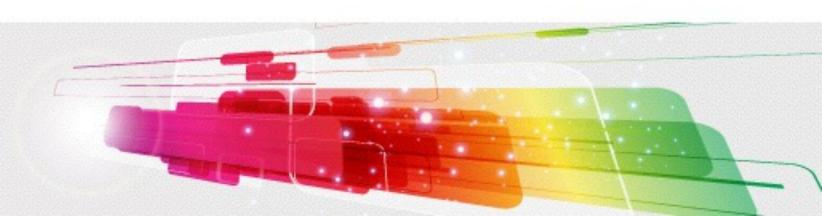


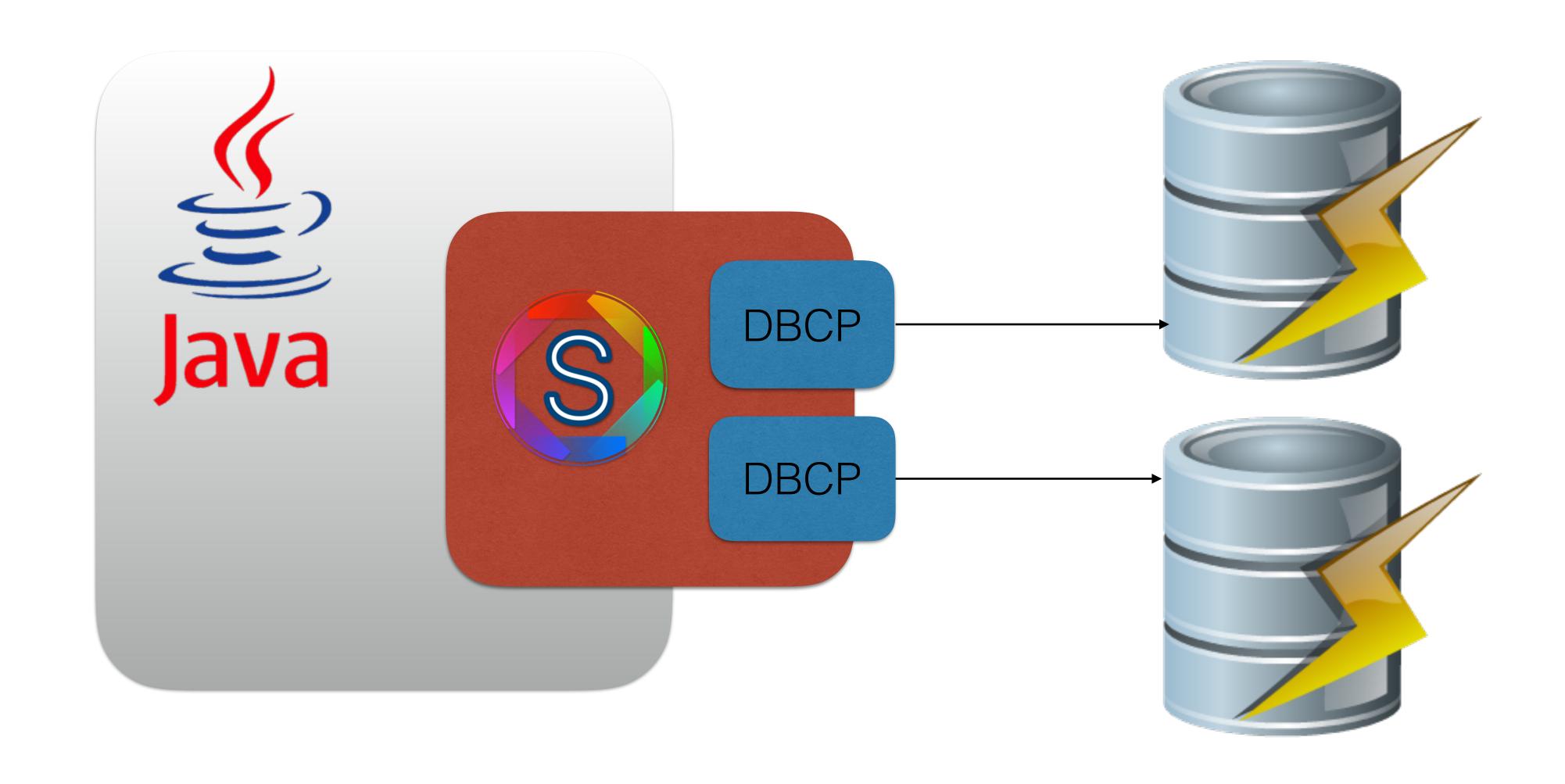








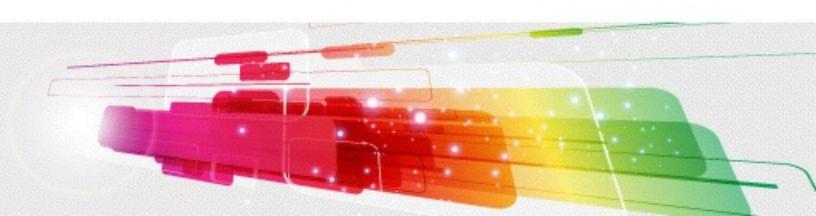












分库分表功能的数据库连接中间层





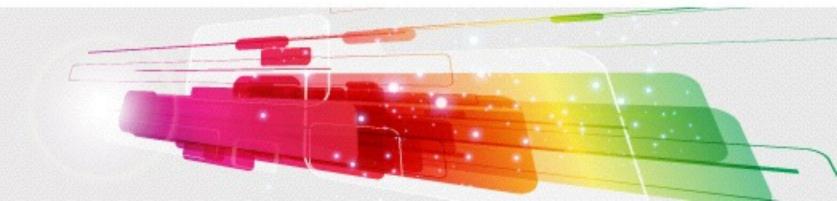








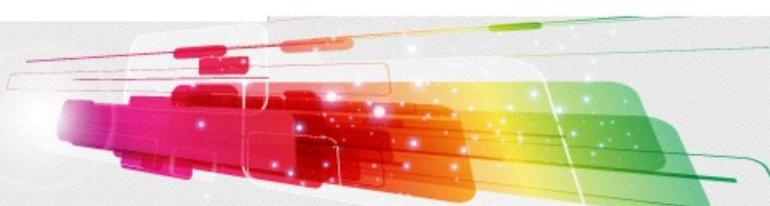


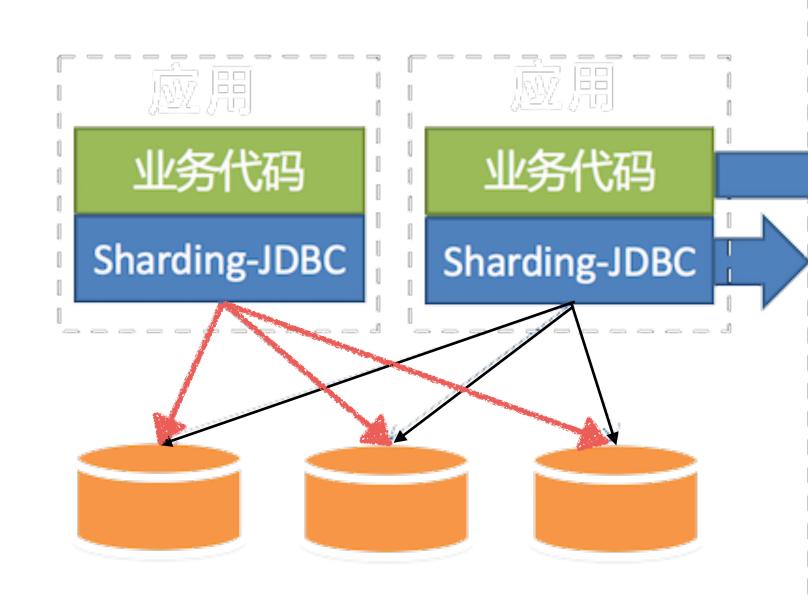










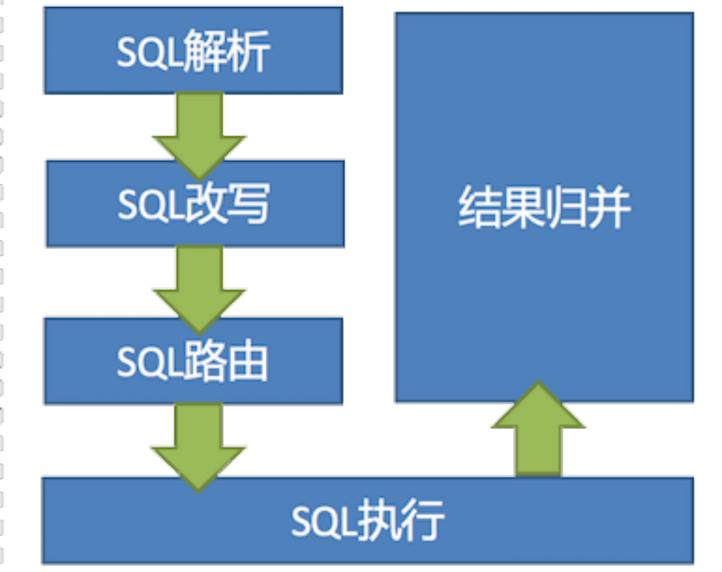






分片规则配置

JDBC规范重写

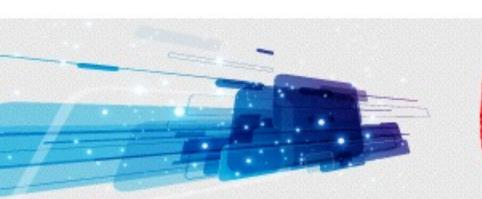






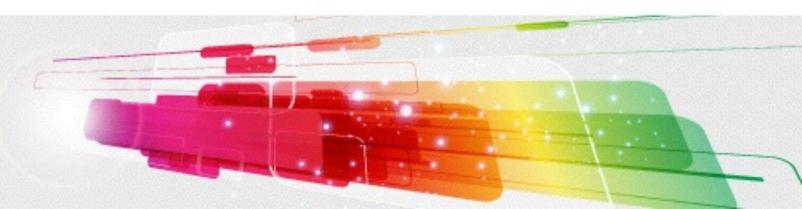




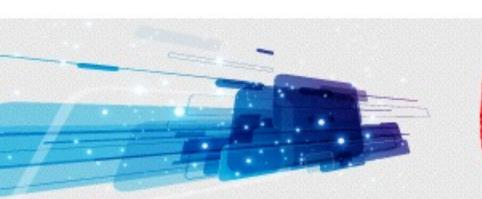






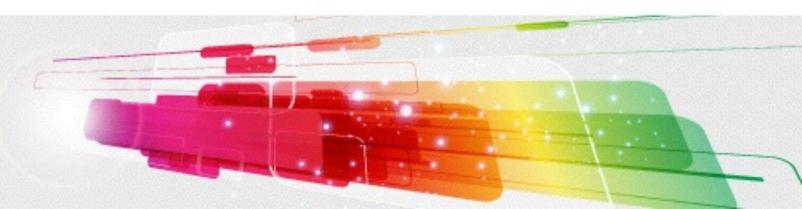












SELECT

a.id

a.name

FROM order a

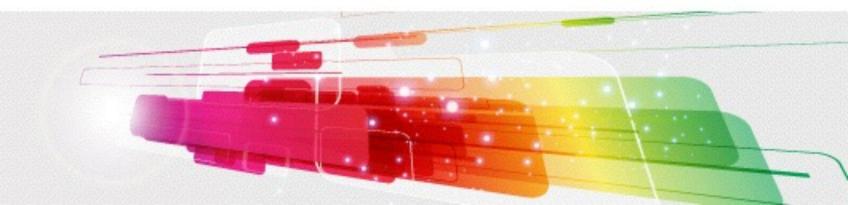
WHERE a.id = 1

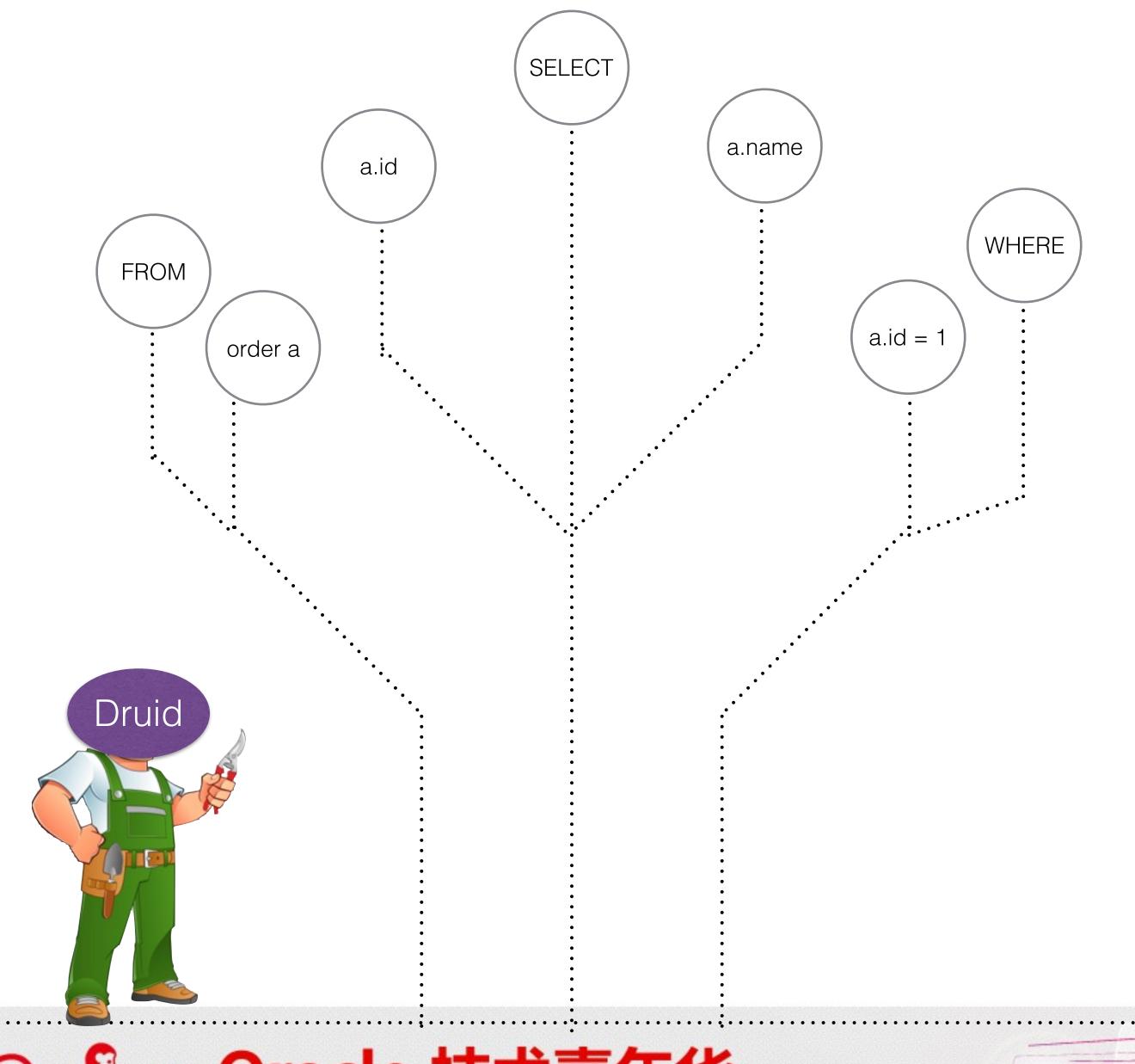








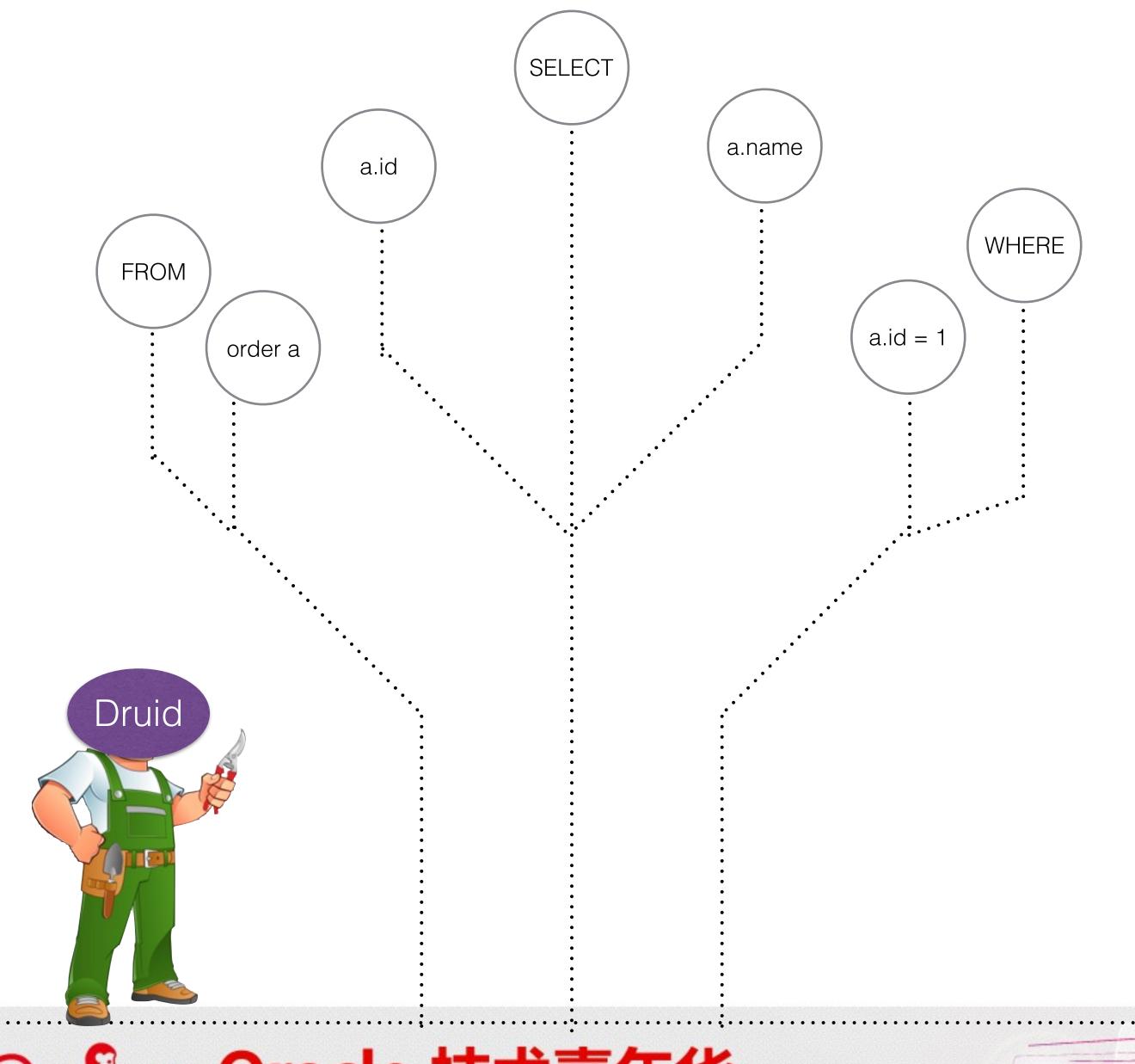










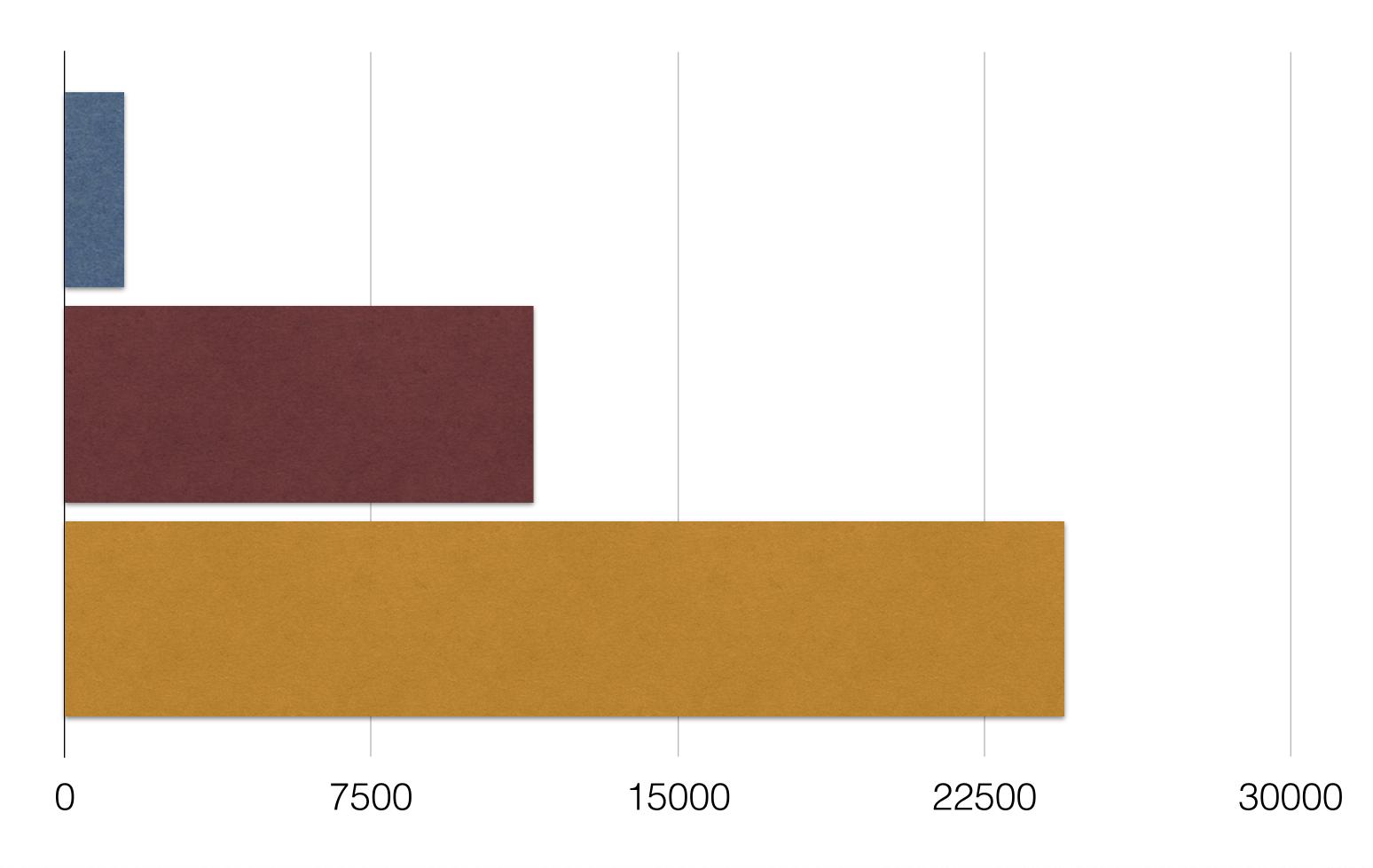








百万次简单SQL解析时间

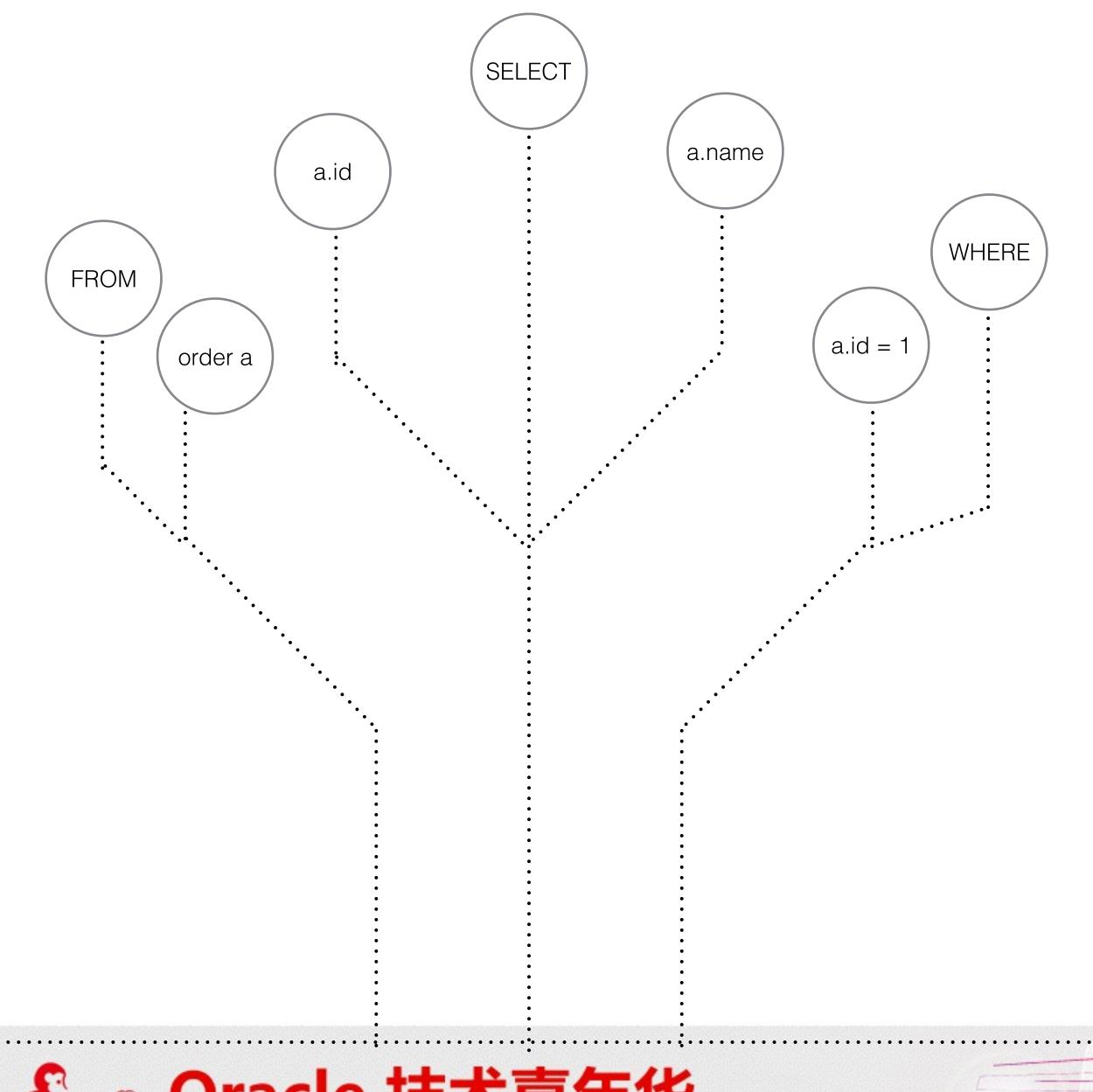








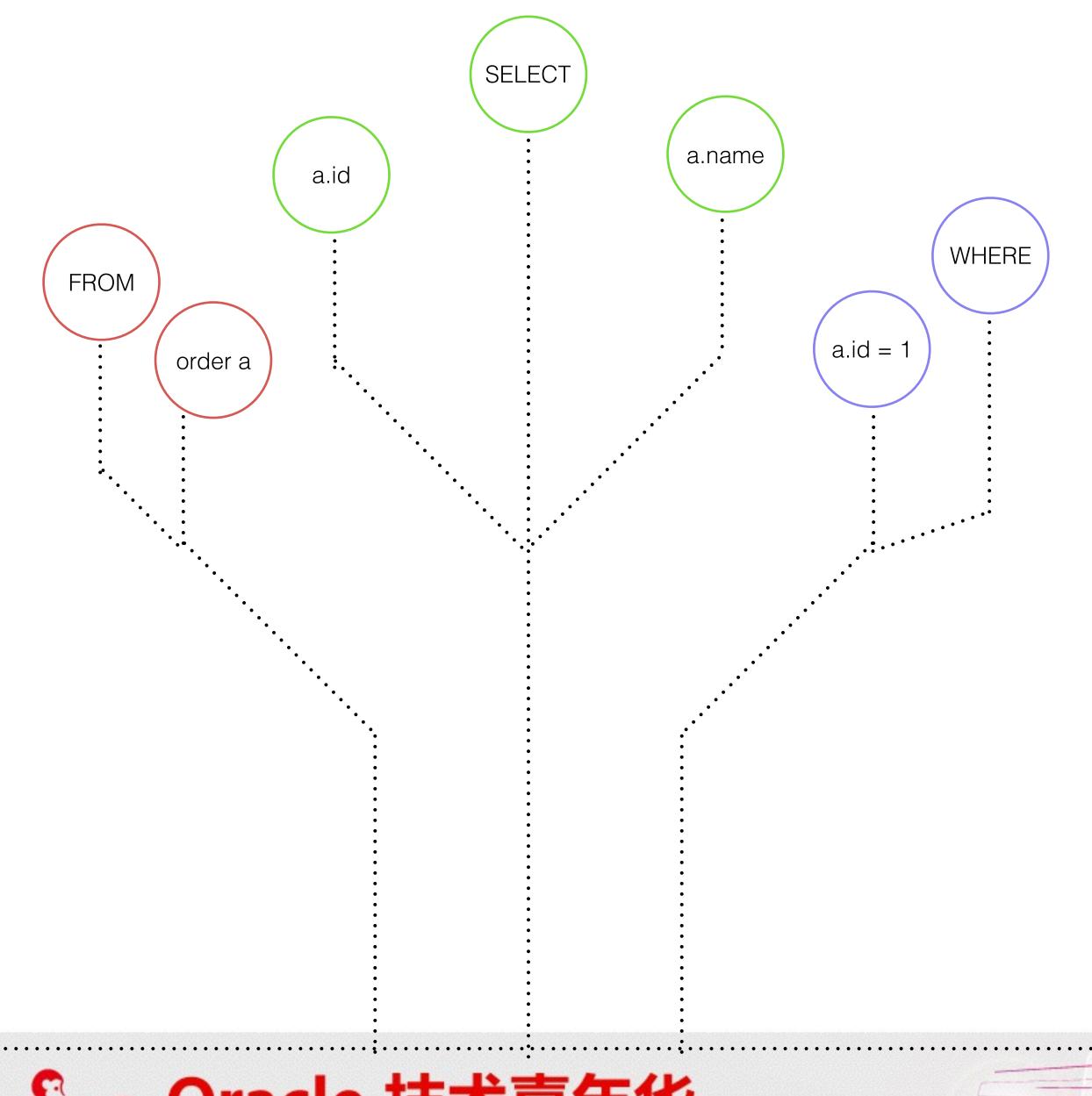
Foundation DB







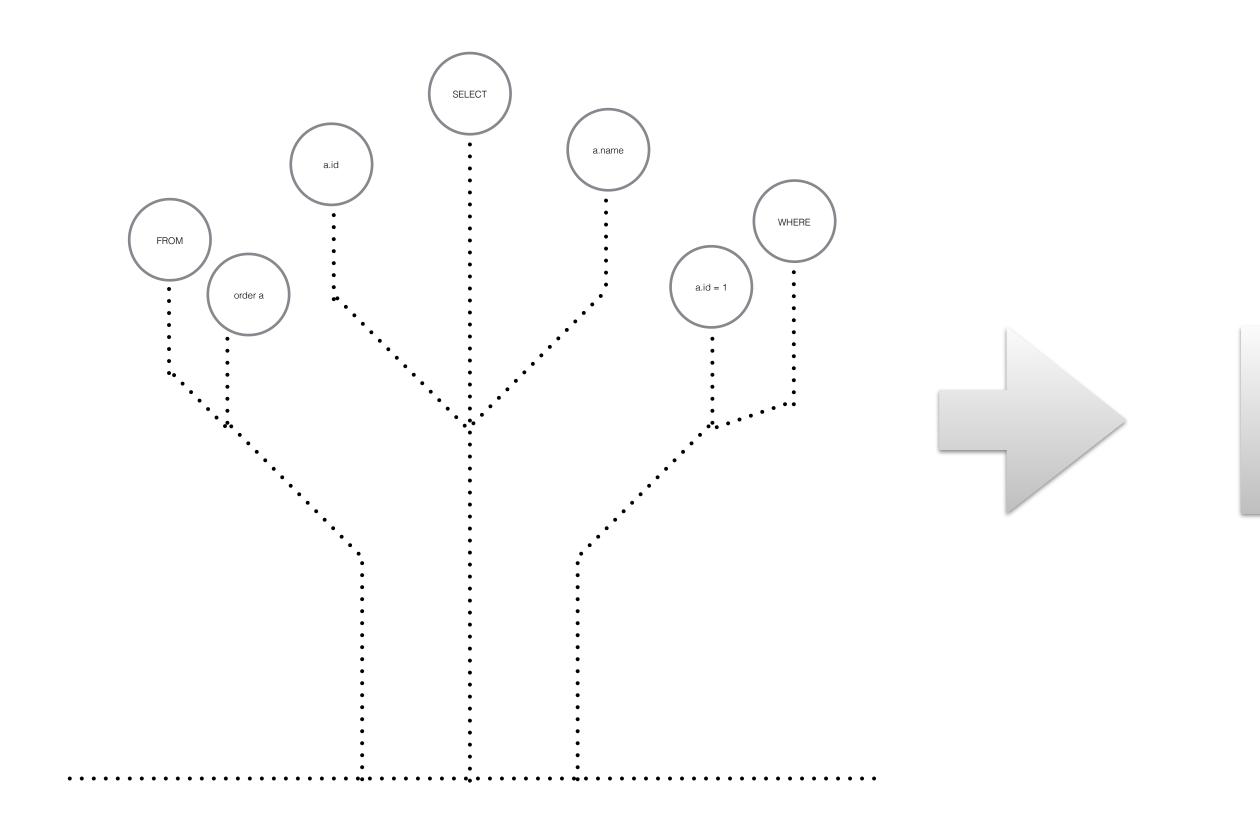










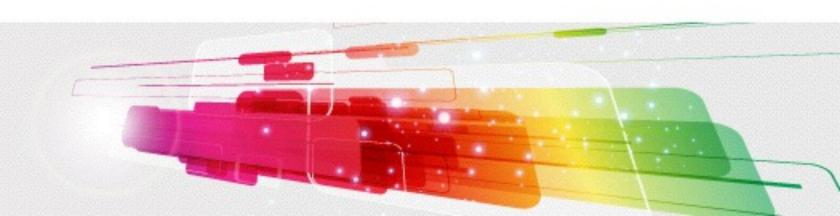


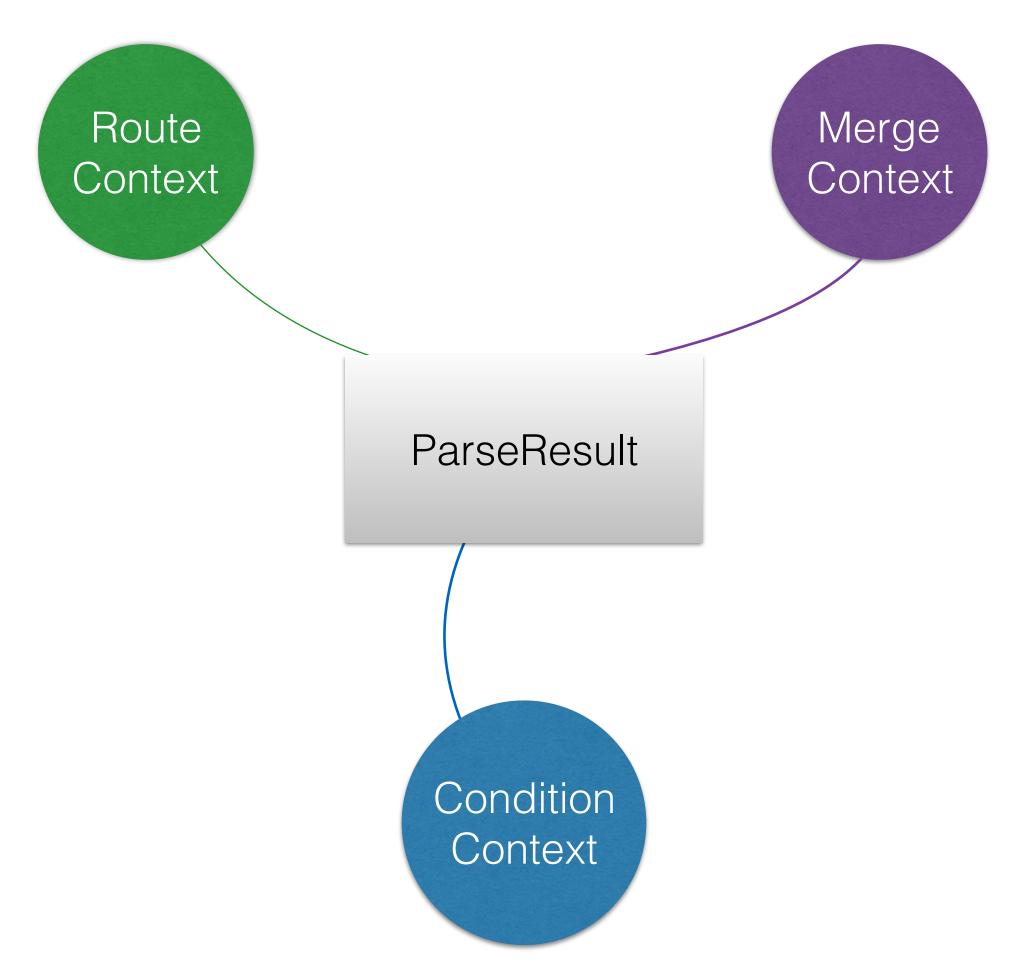
ParseResult







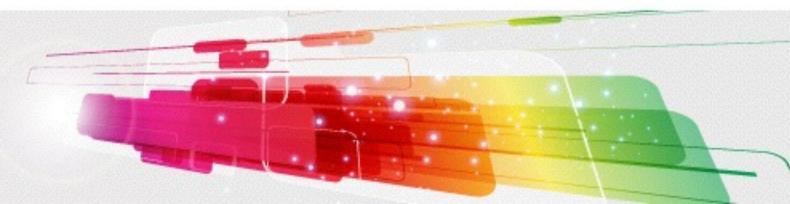










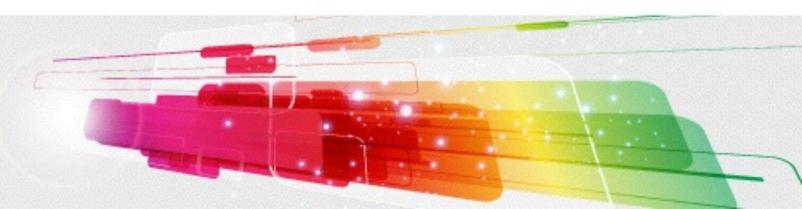










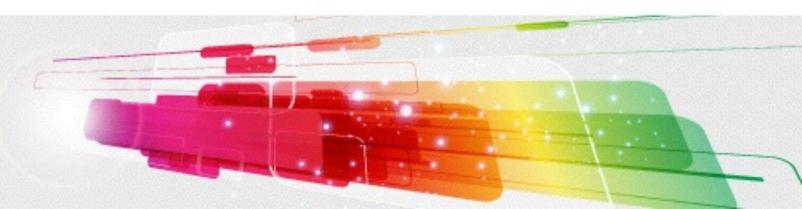


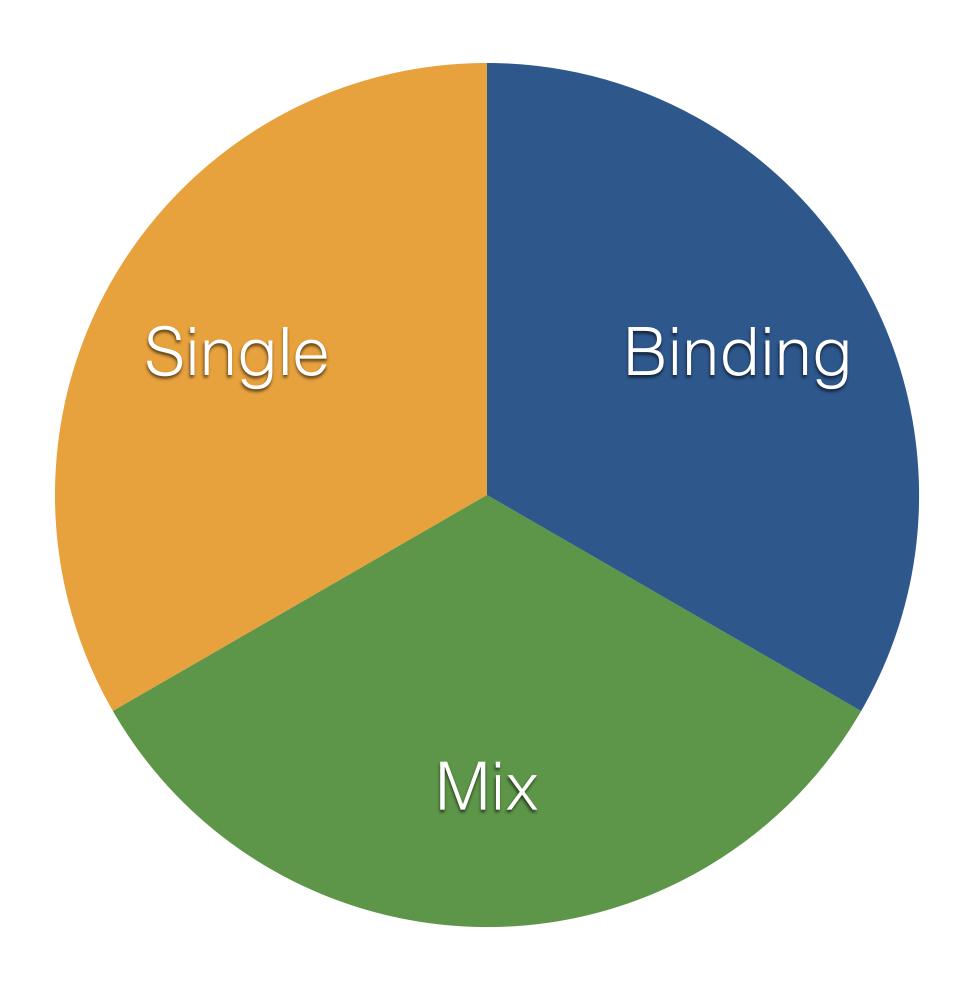








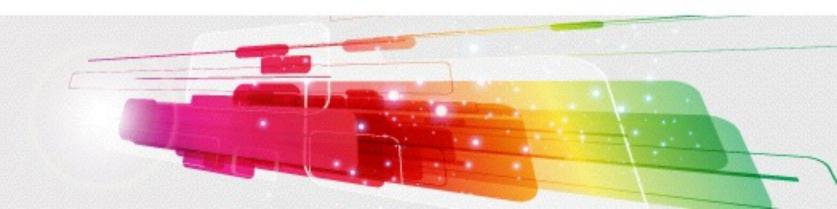




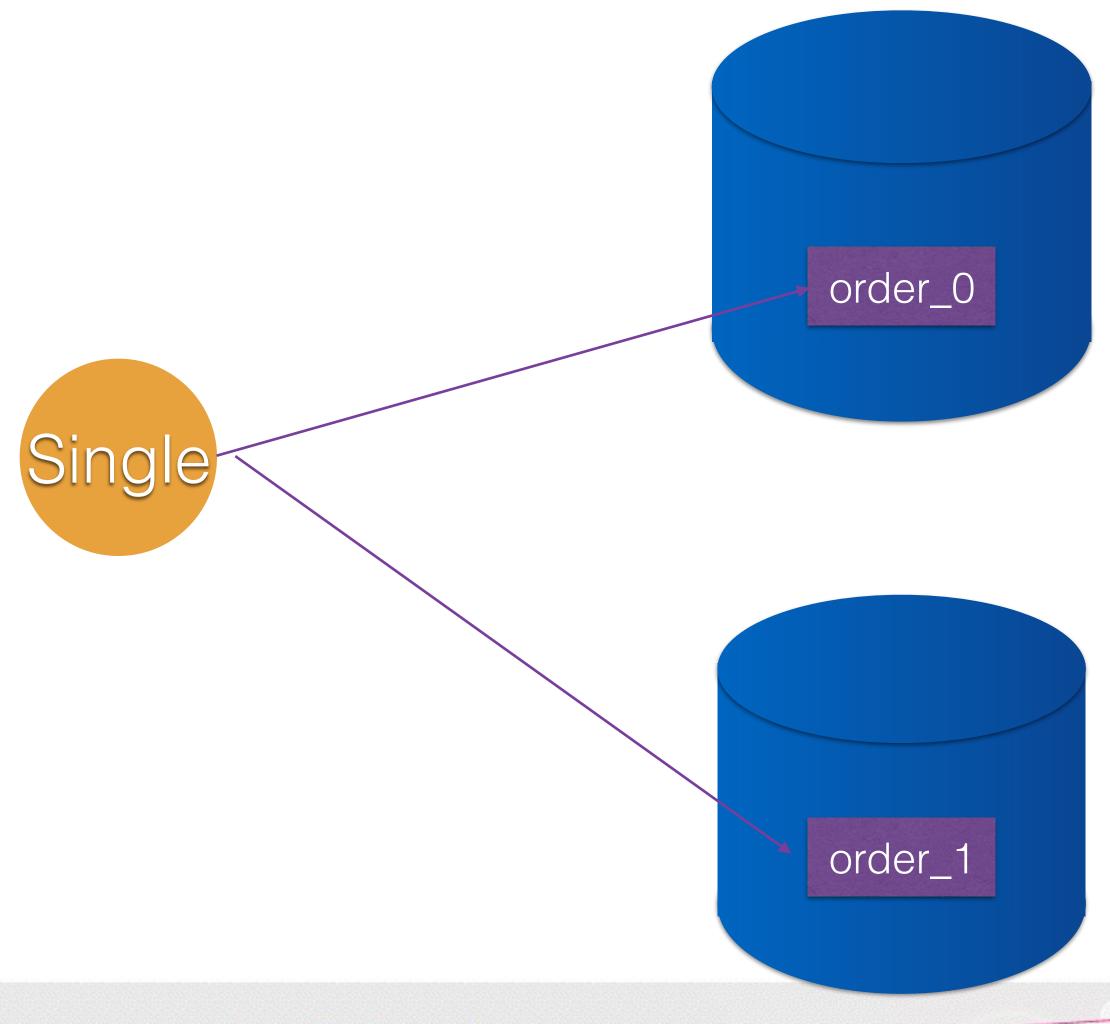








SELECT * FROM order

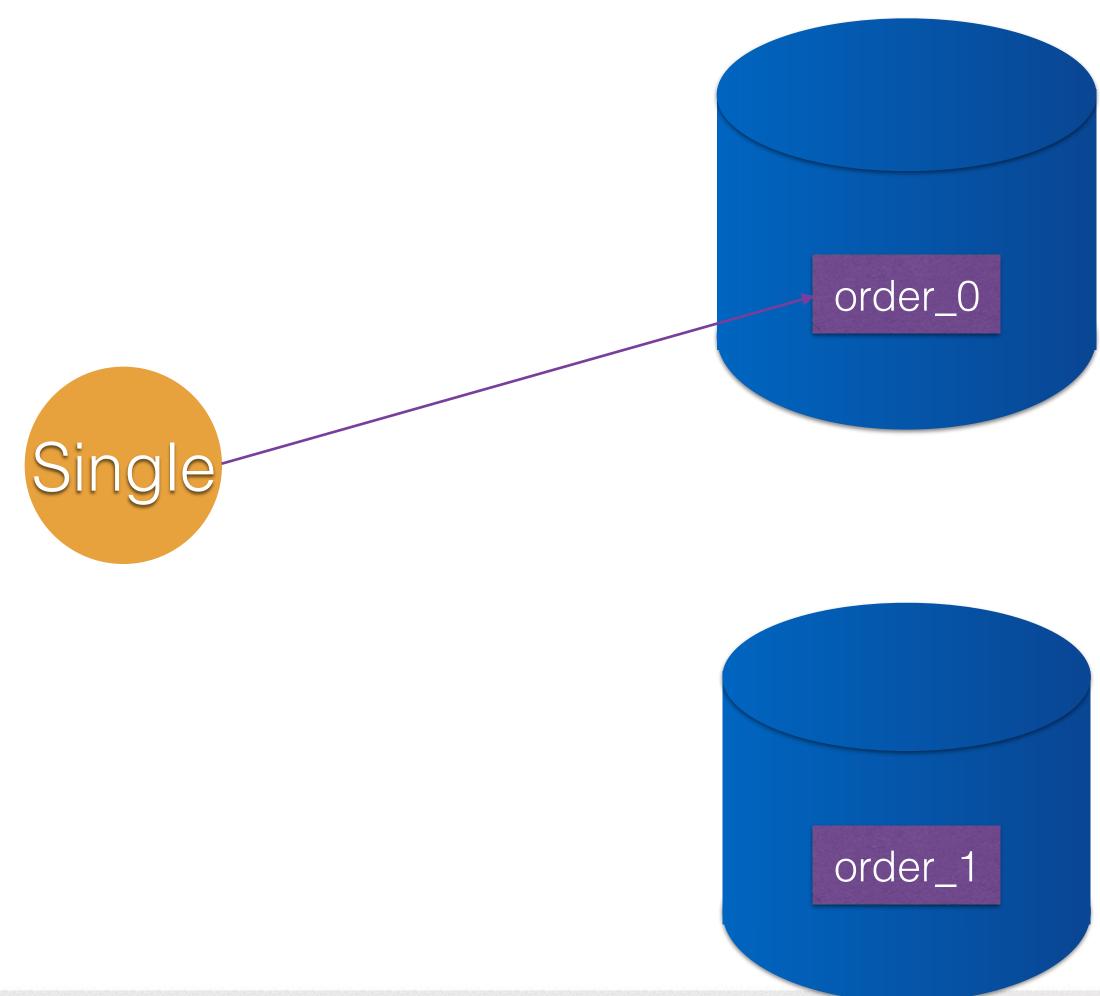








SELECT * FROM order WHERE order_id = 0

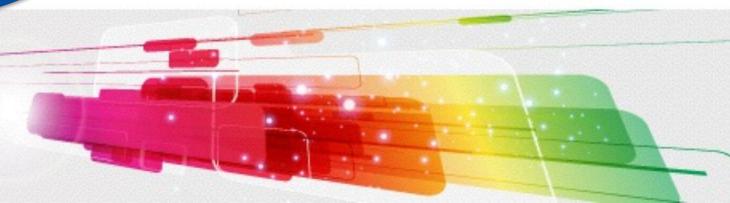






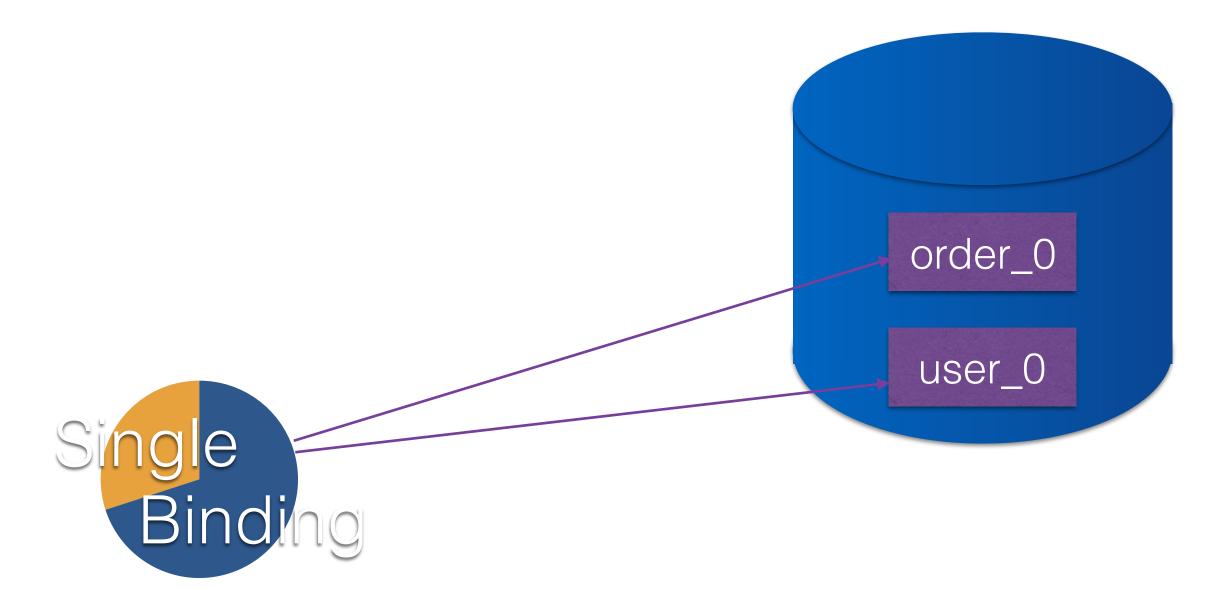






SELECT * FROM order o join user u using user_id

WHERE o.order_id = 0



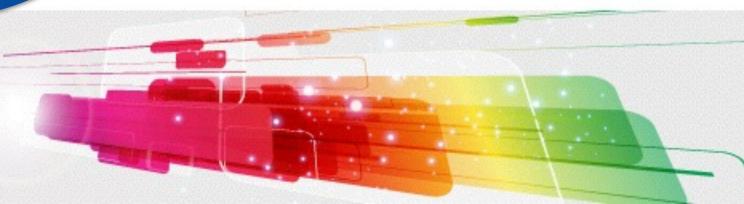




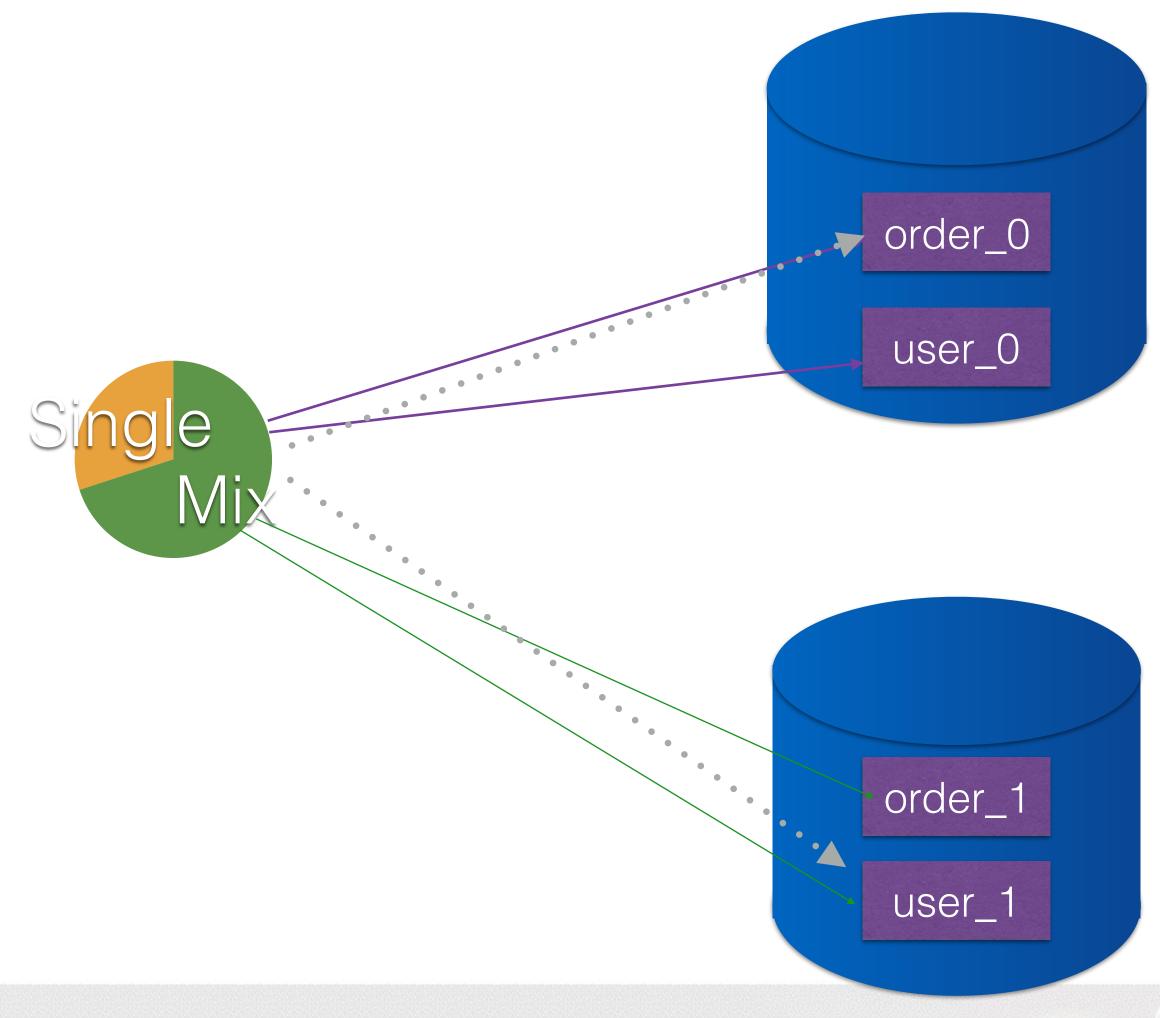








SELECT * FROM order o join user u using user_id WHERE o.order_id in (0,1) AND u.user_id in (0,1)

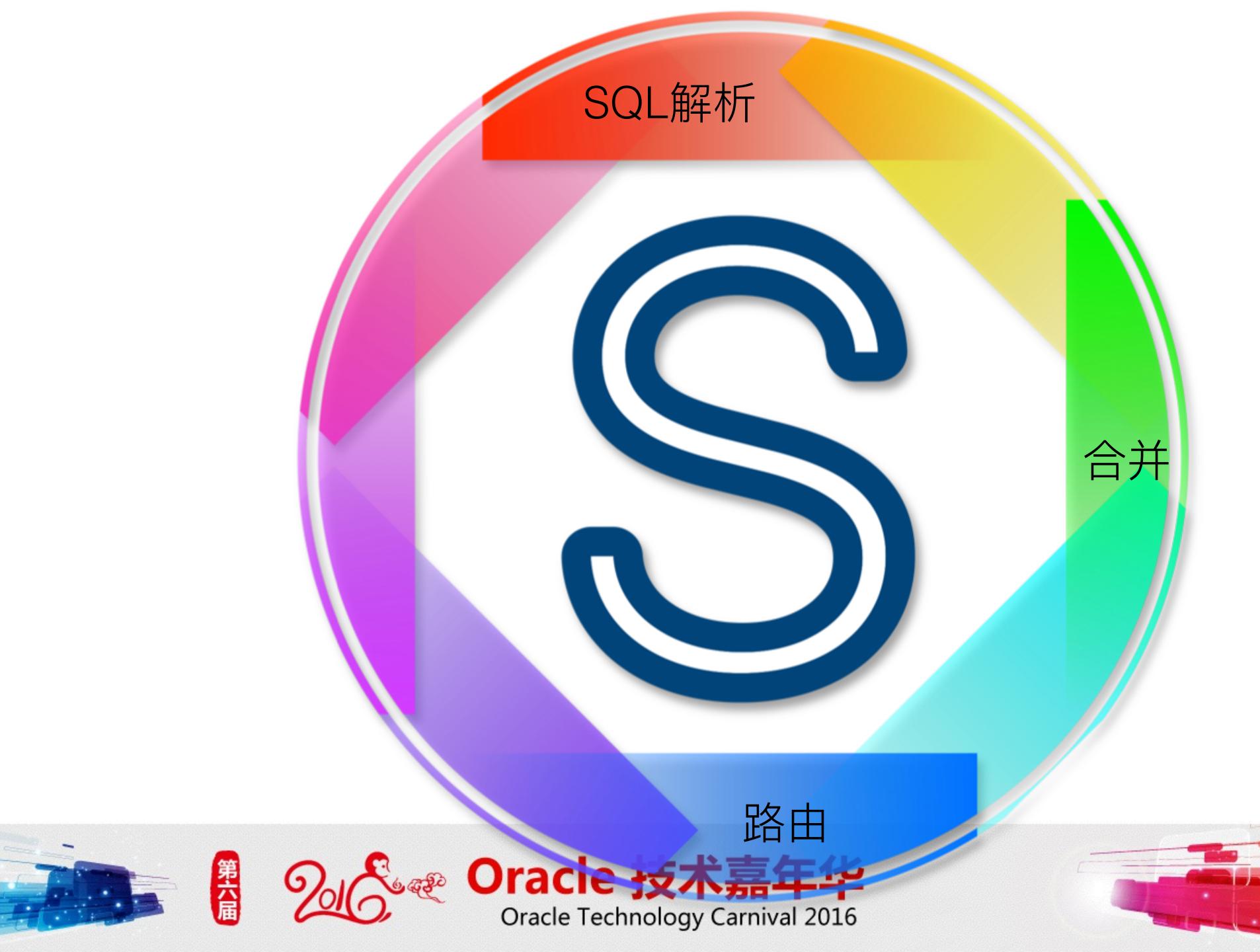


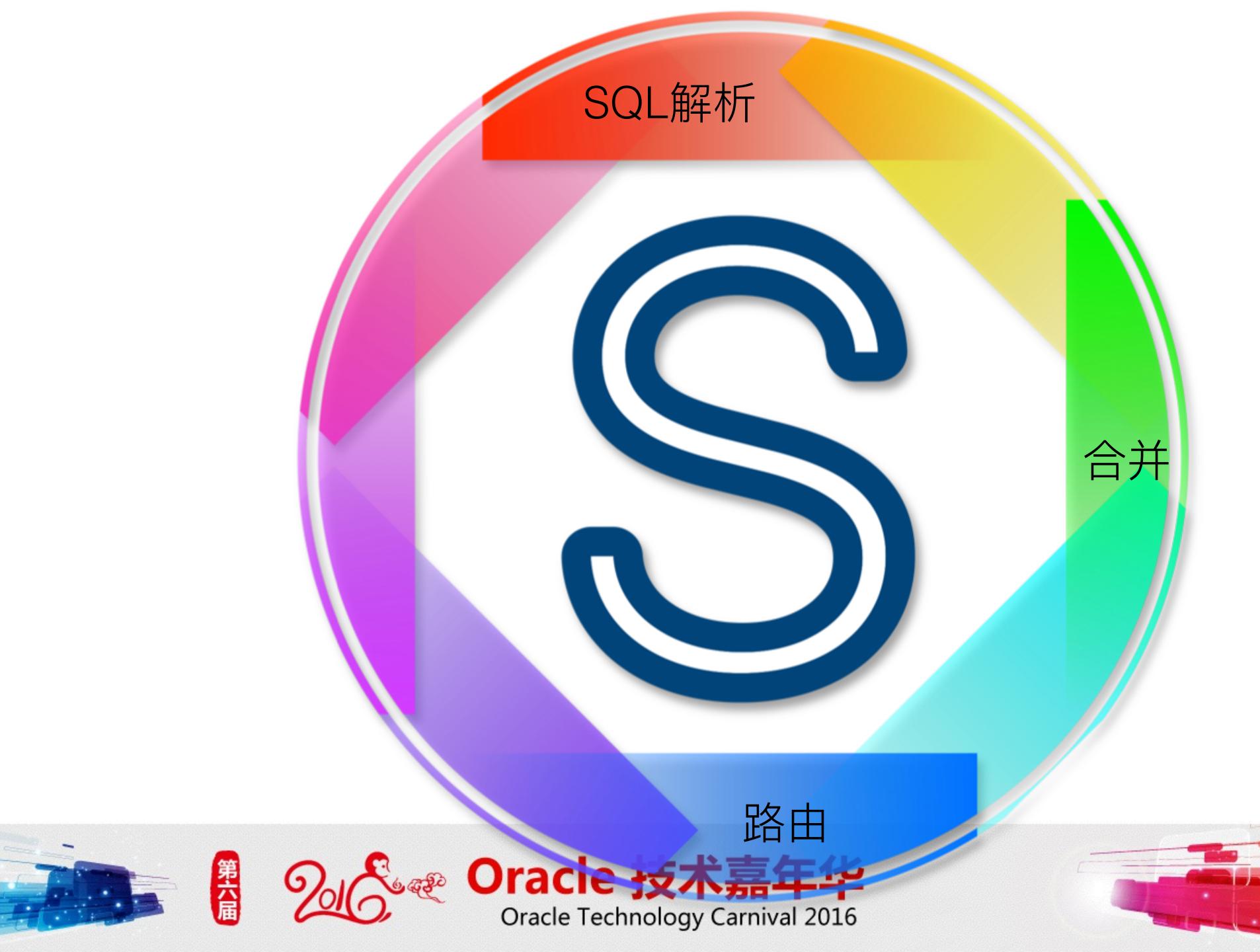


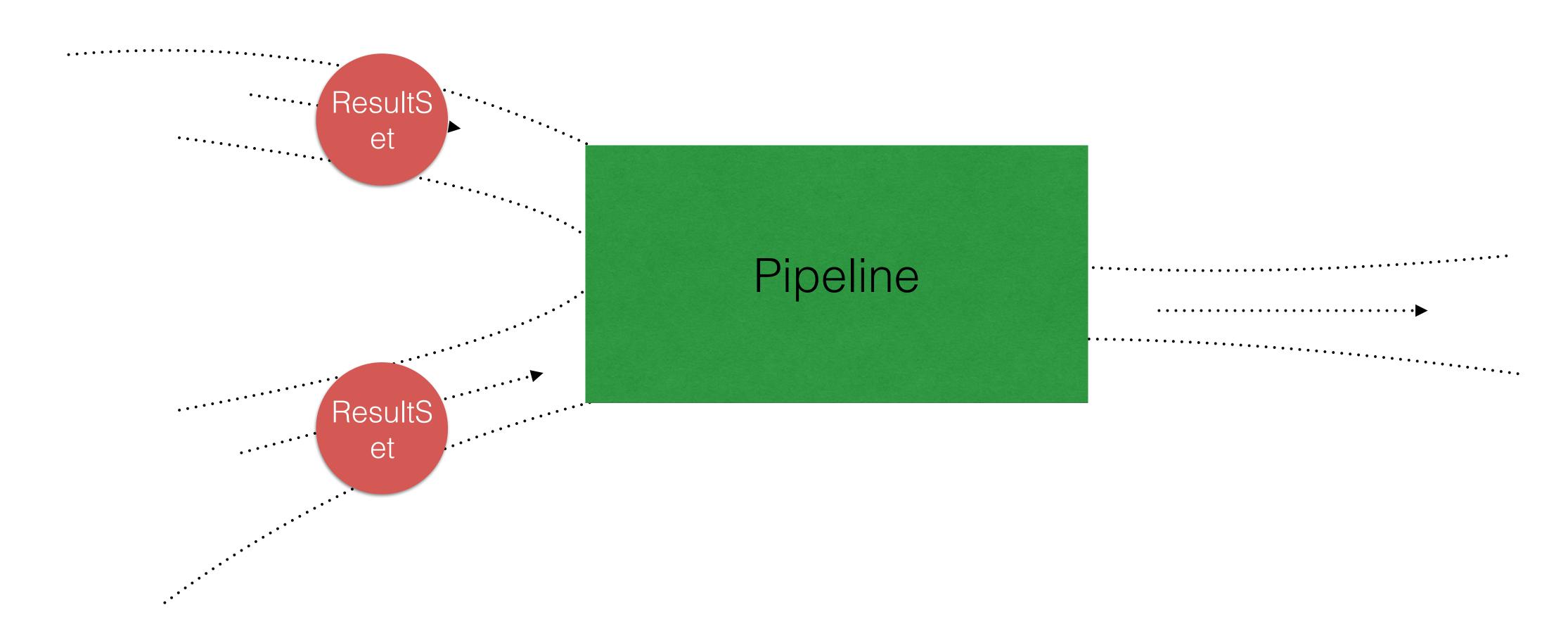








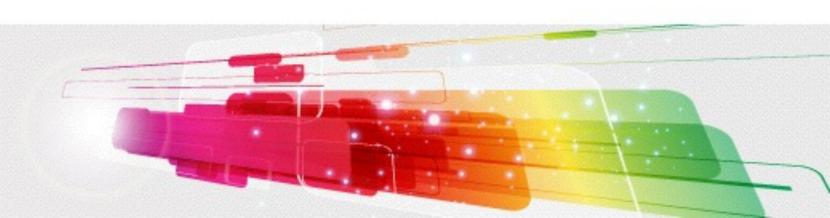


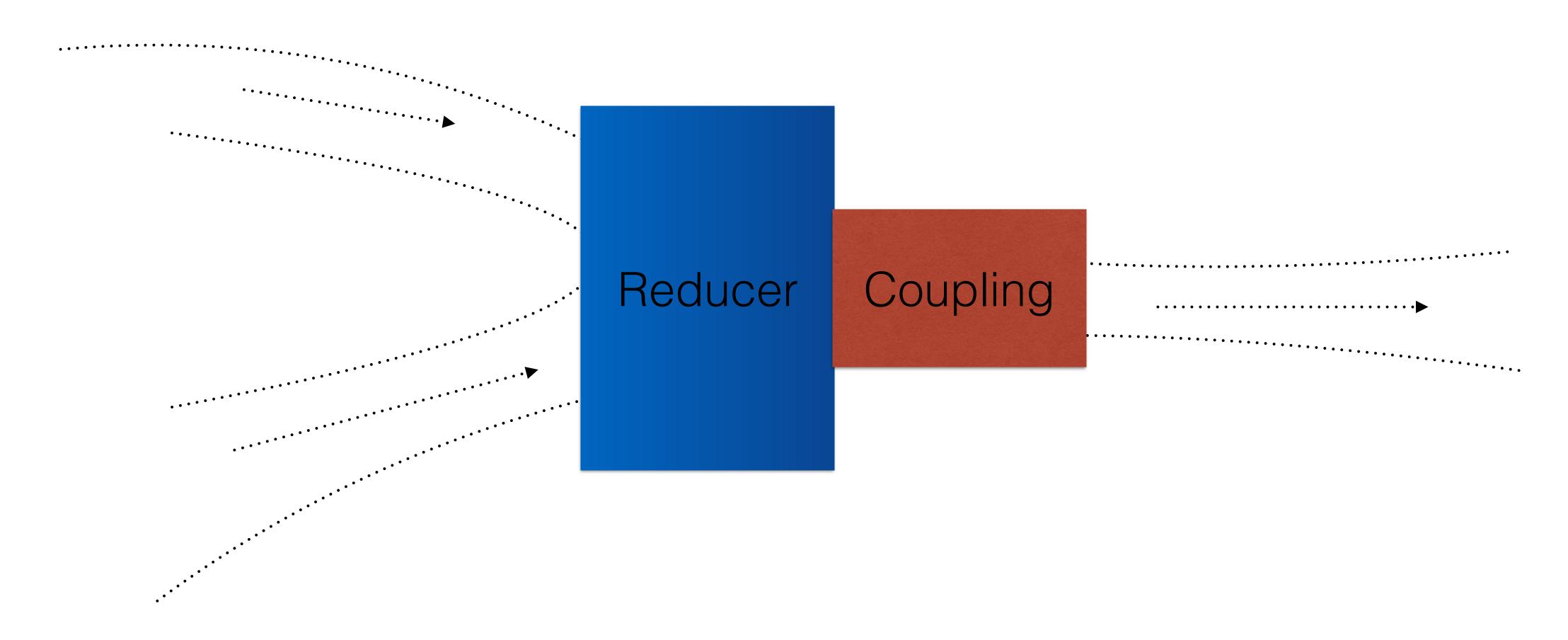








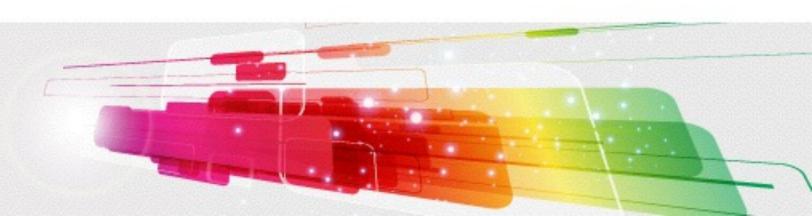


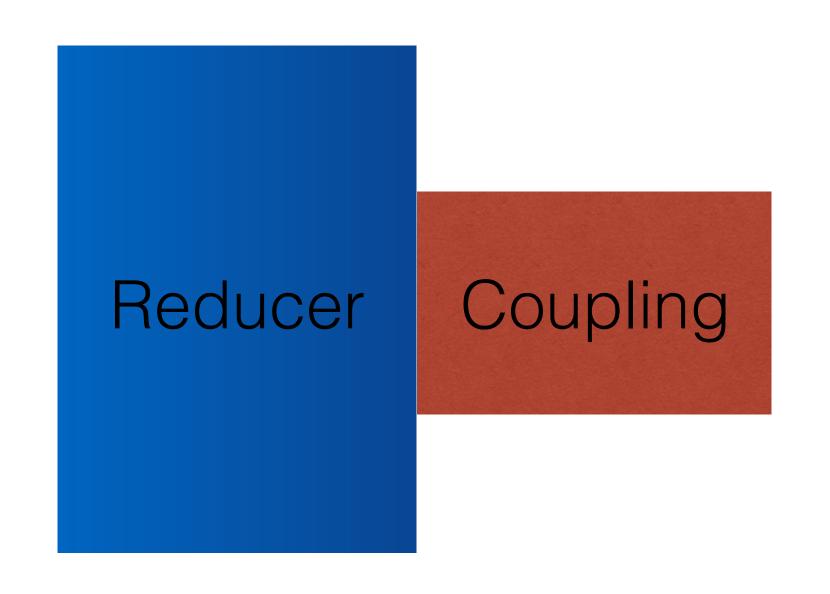










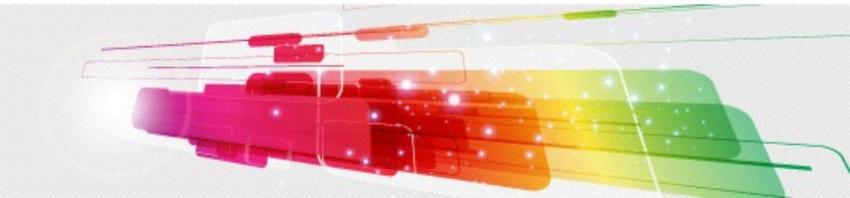


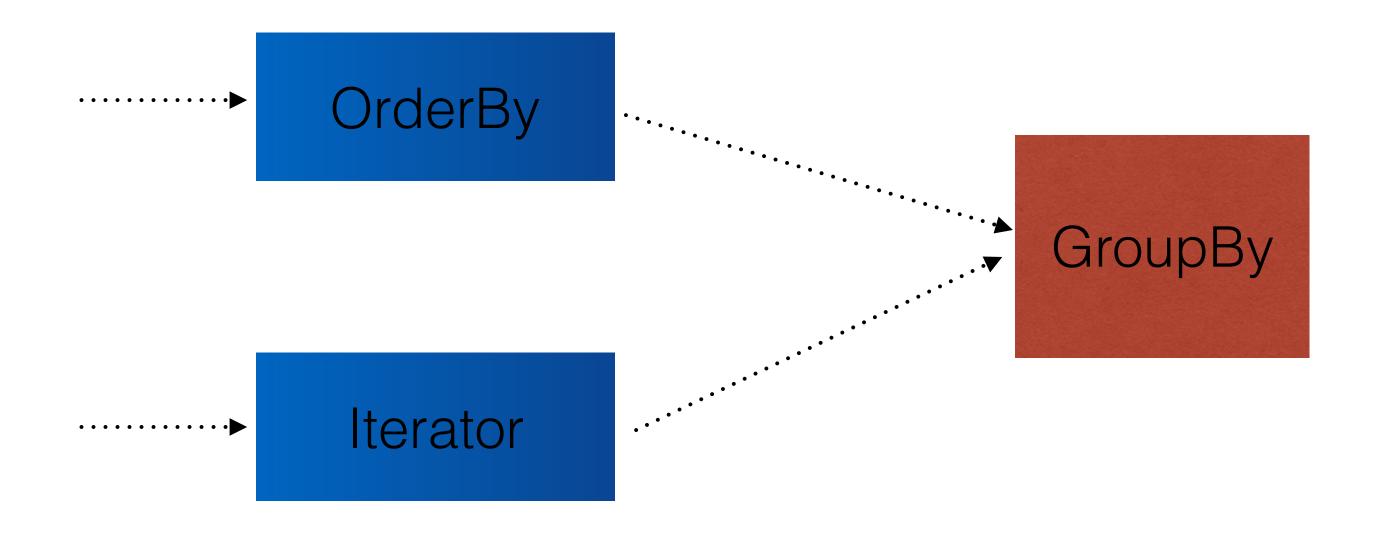


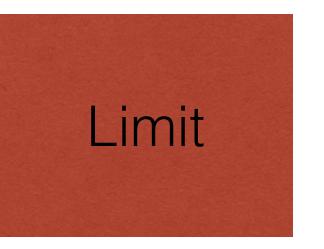










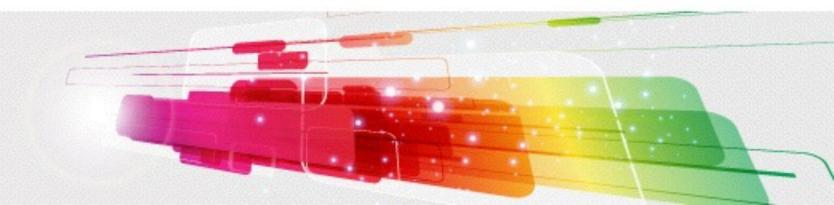












SELECT price, order_date FROM order GROUP BY order_date ORDER BY price

OrderBy

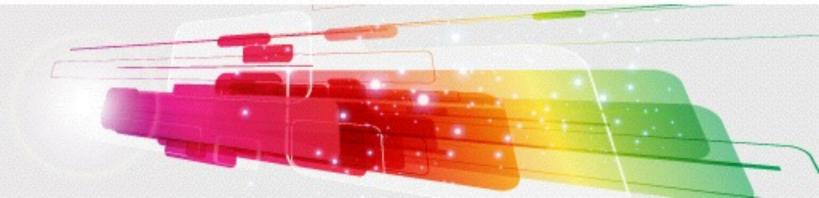
- 存在GroupBy
- 2. 上游ResultSet没有按照 Group Item排序

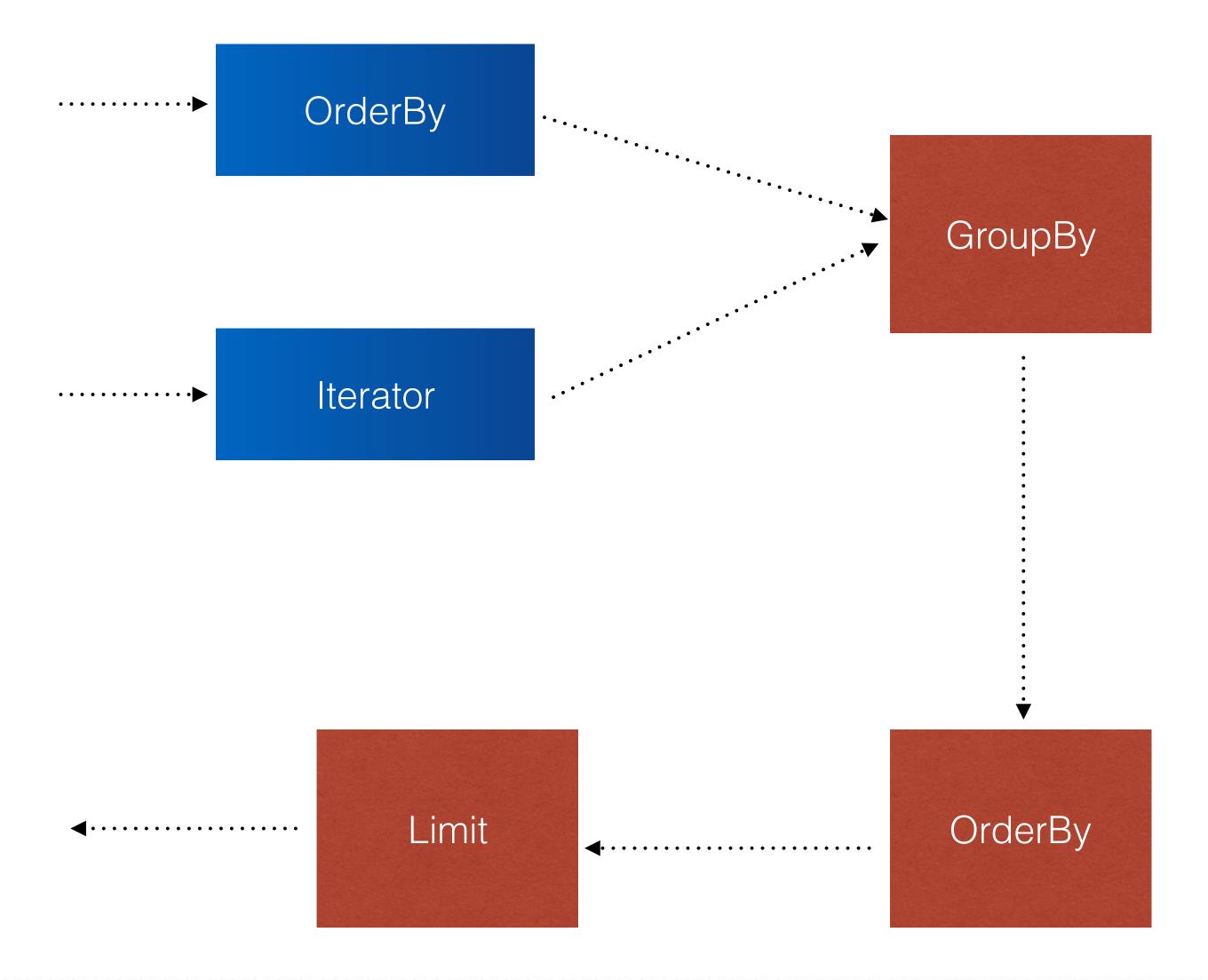








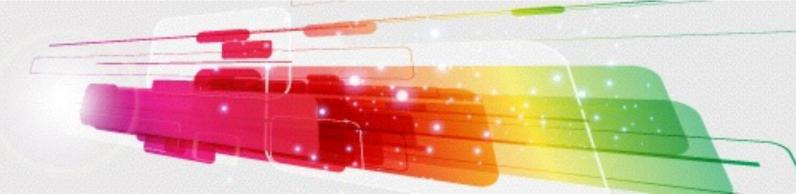


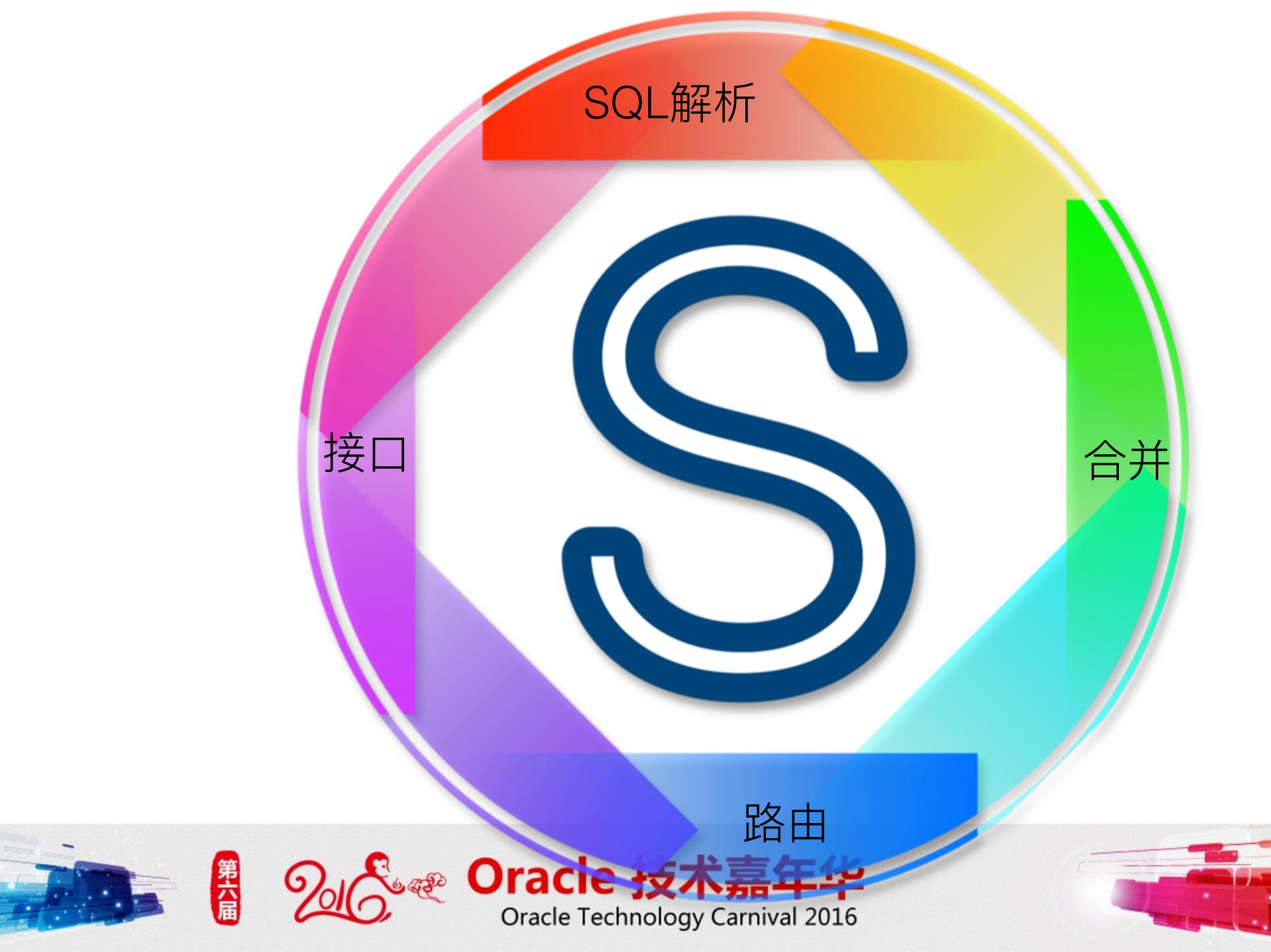


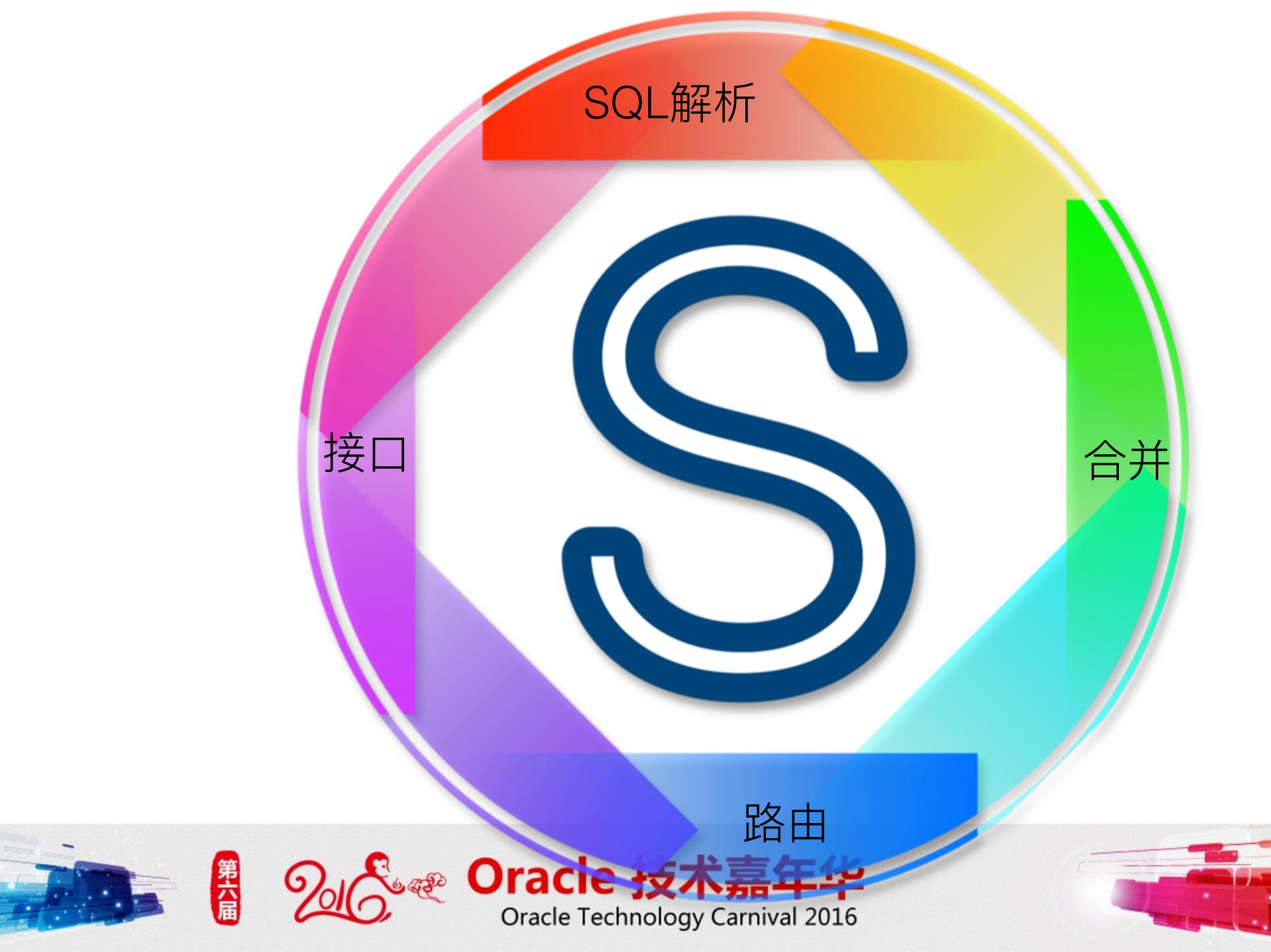












Datasource

Connection



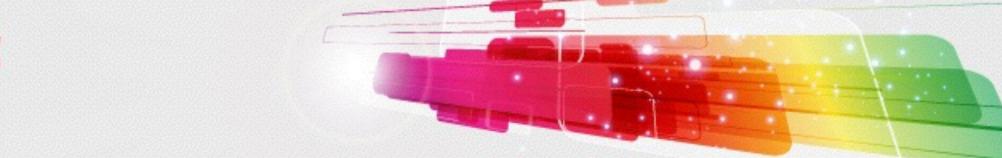
ResultSet

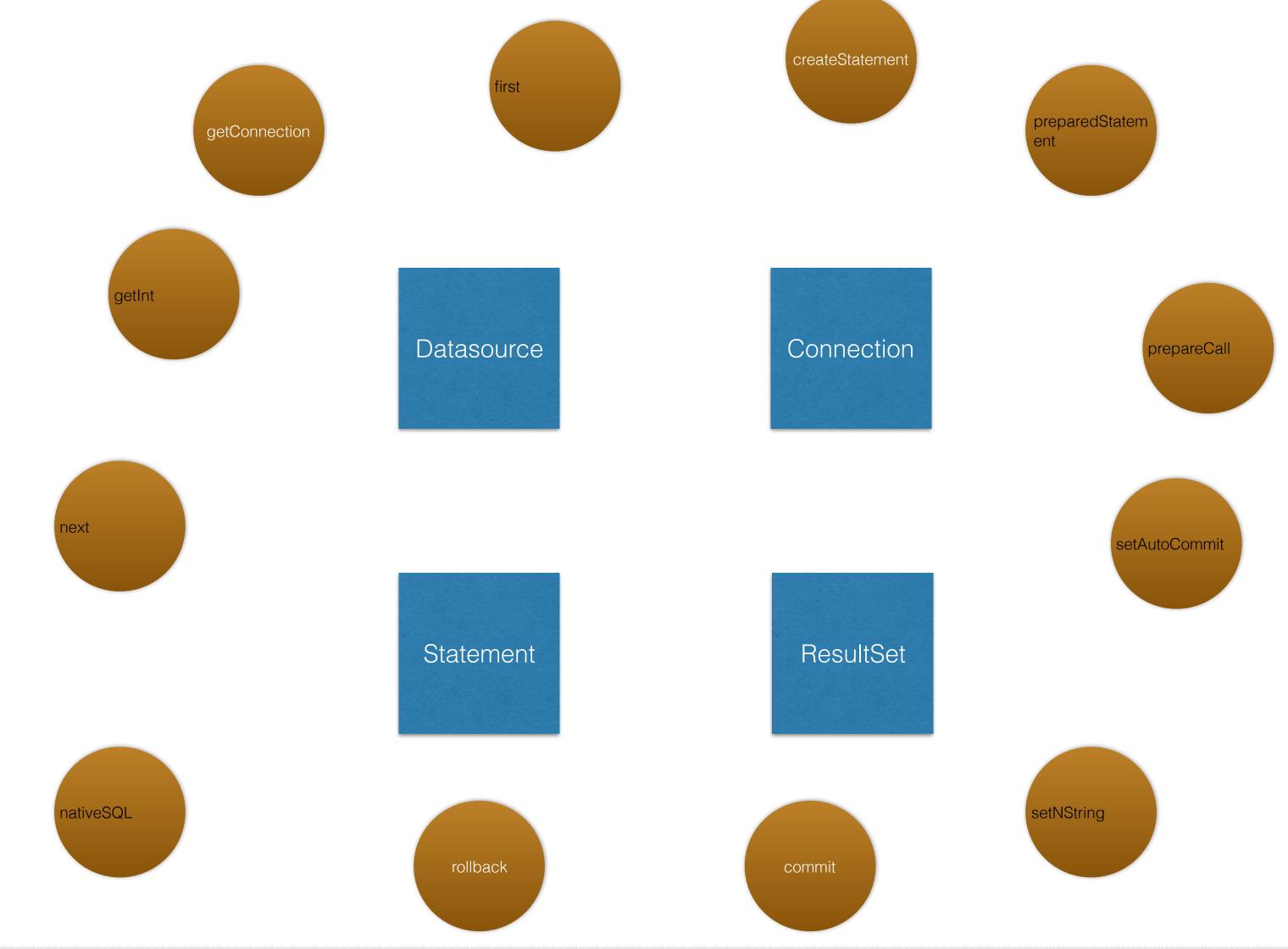








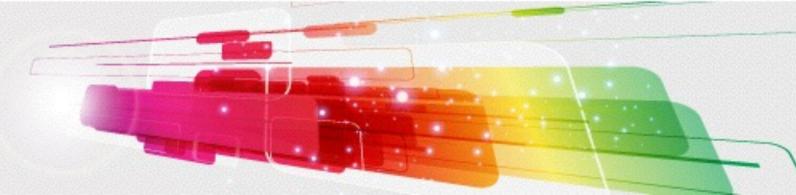


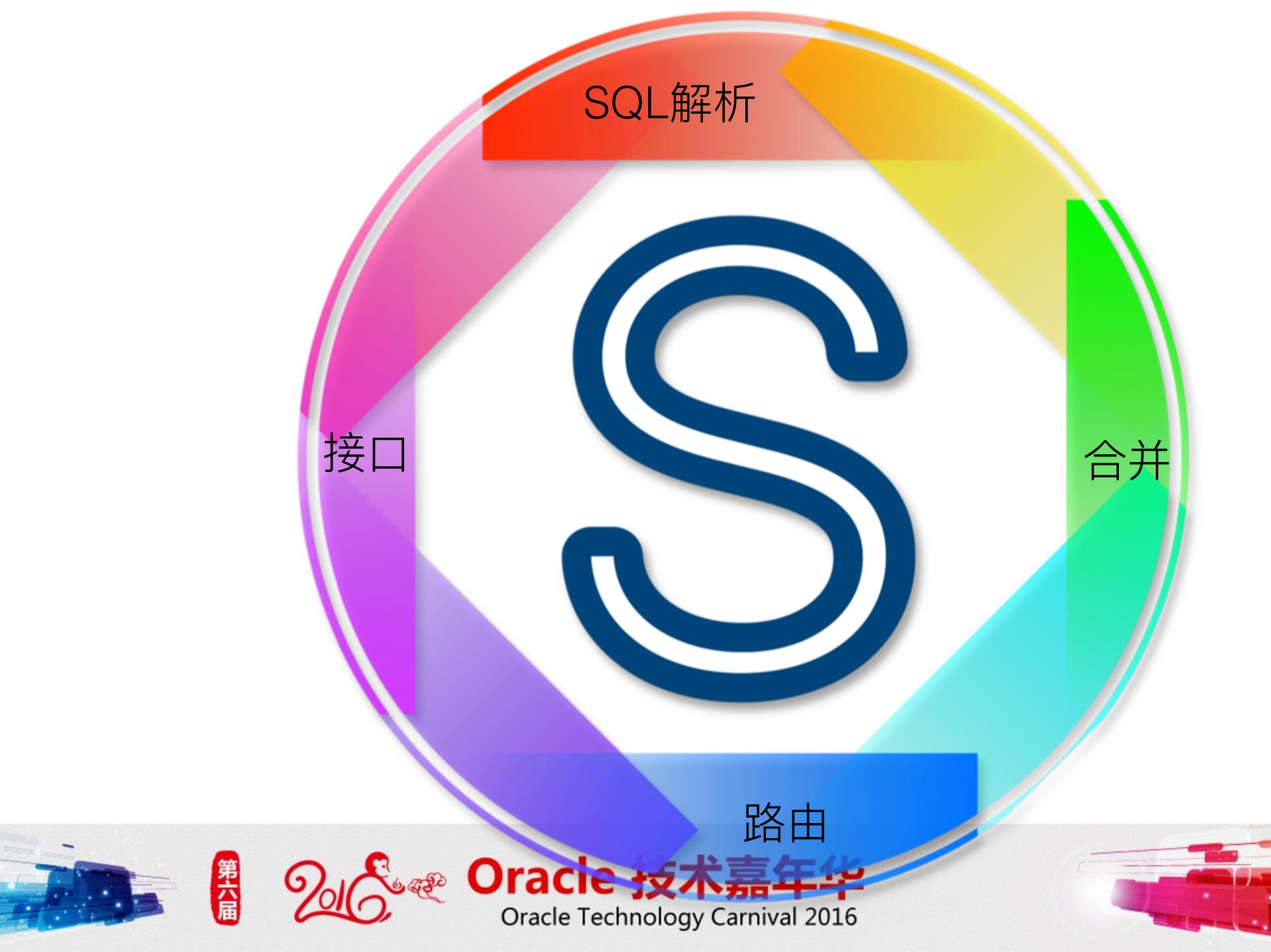


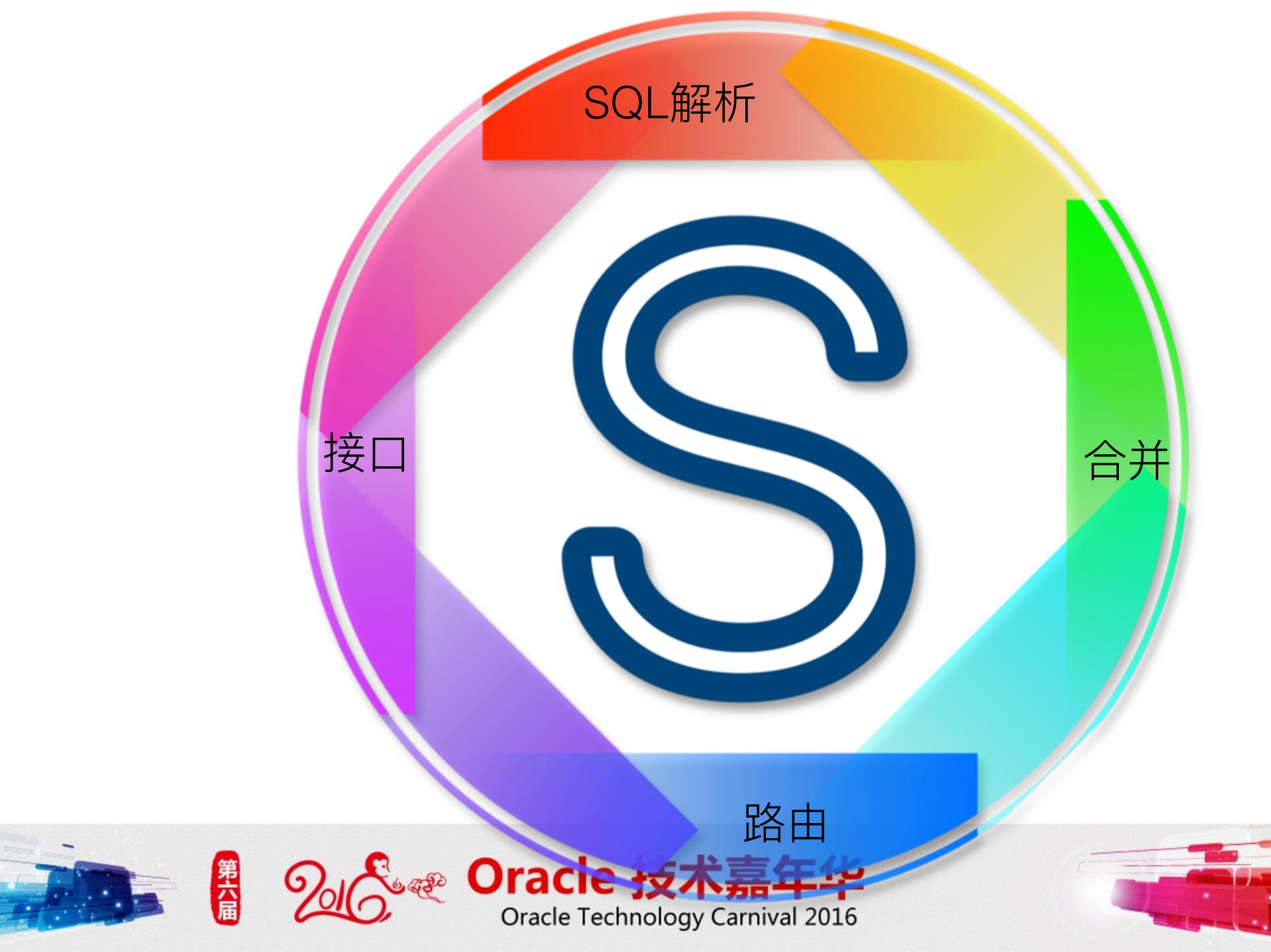


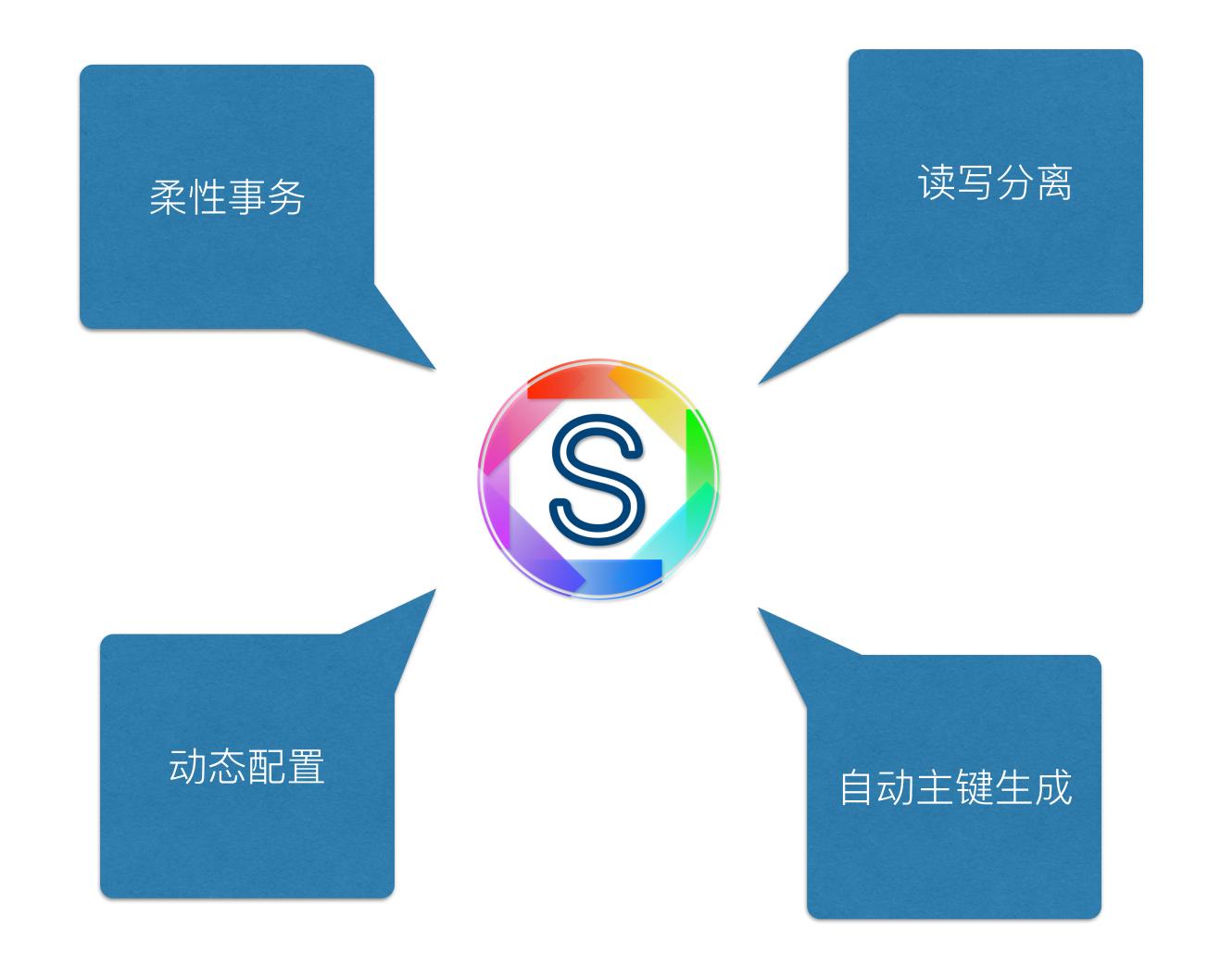








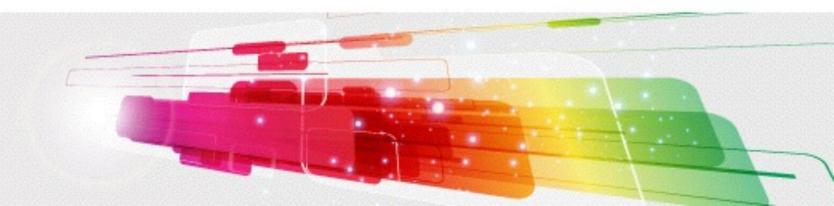




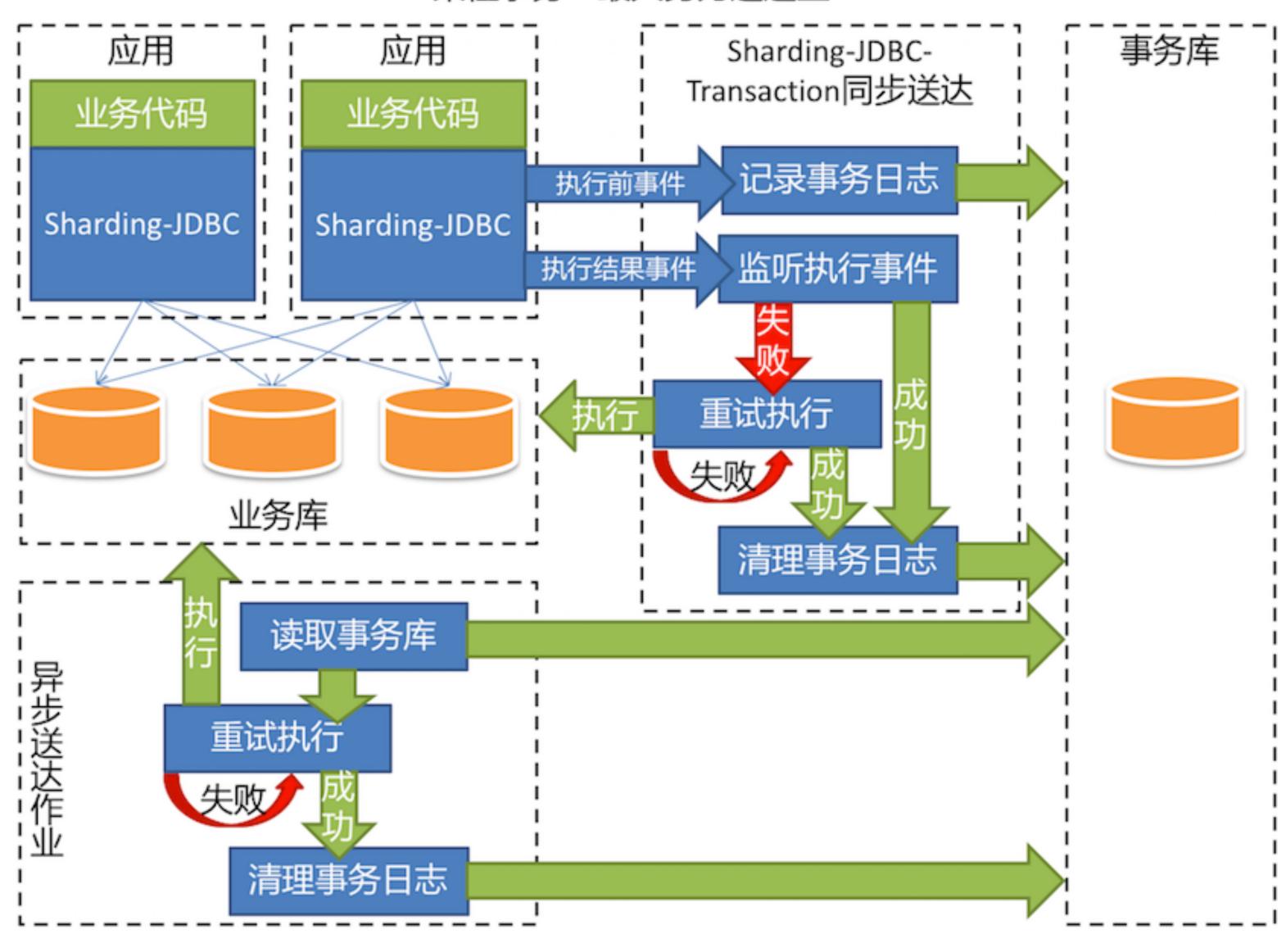


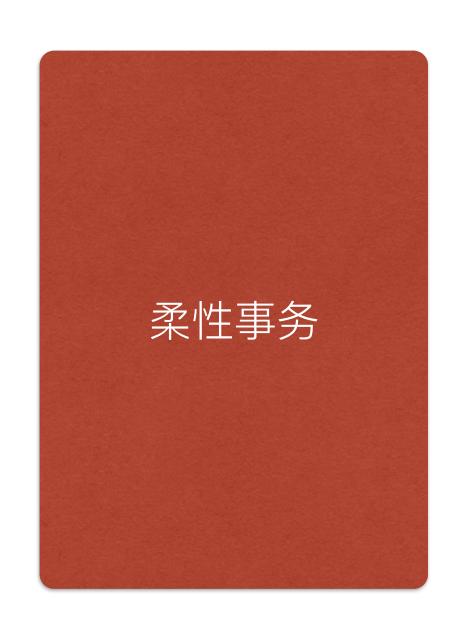






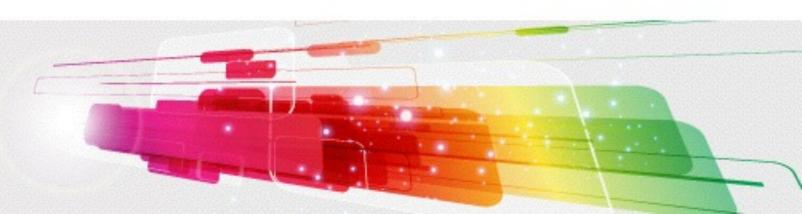
柔性事务 – 最大努力送达型

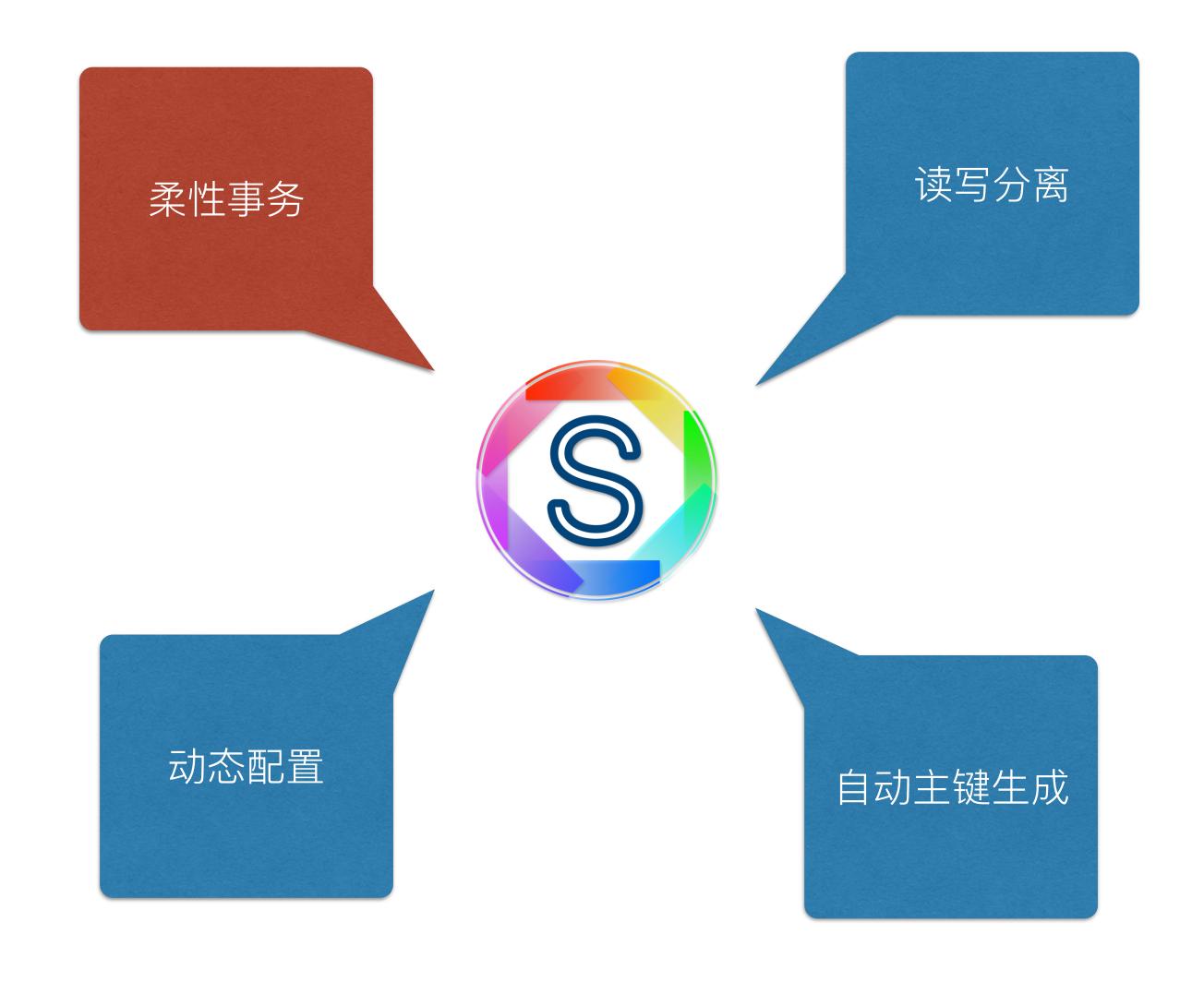








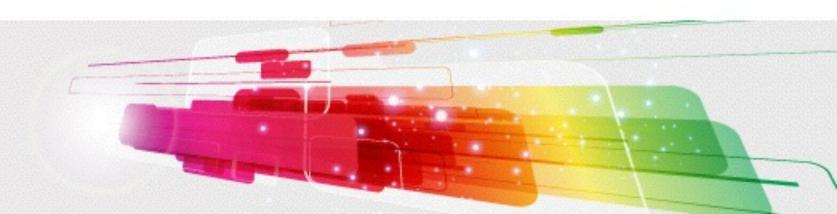


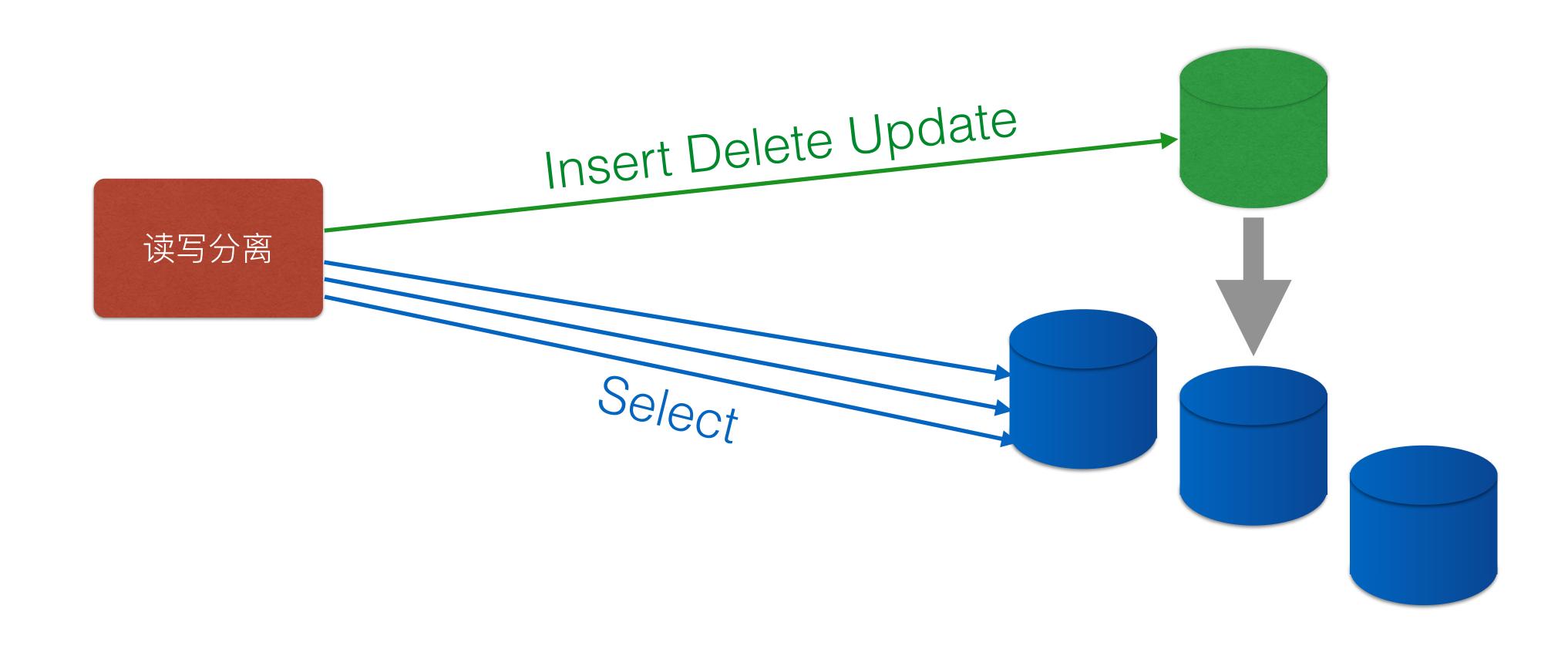








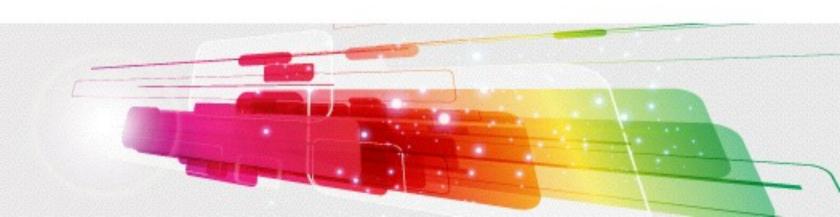


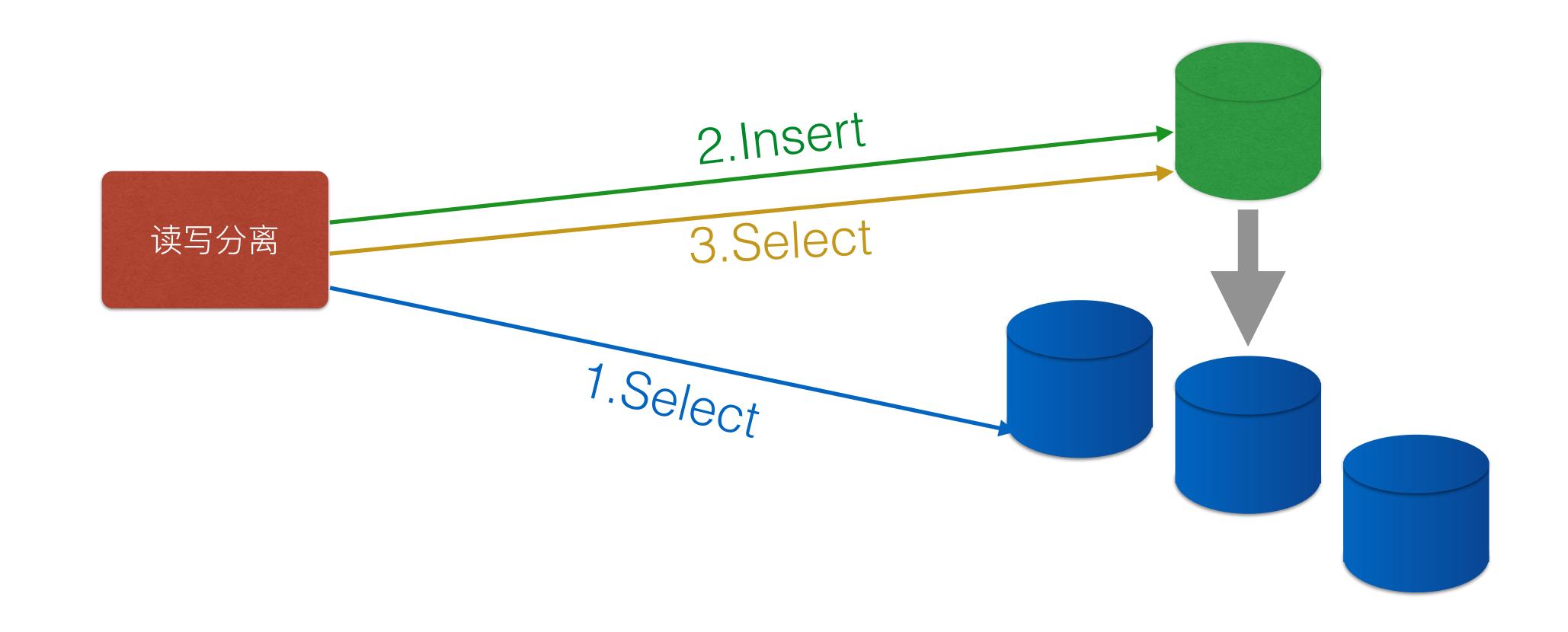








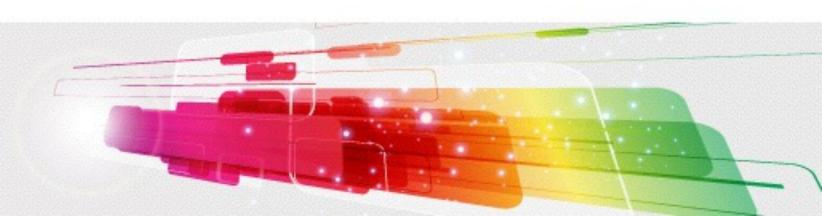


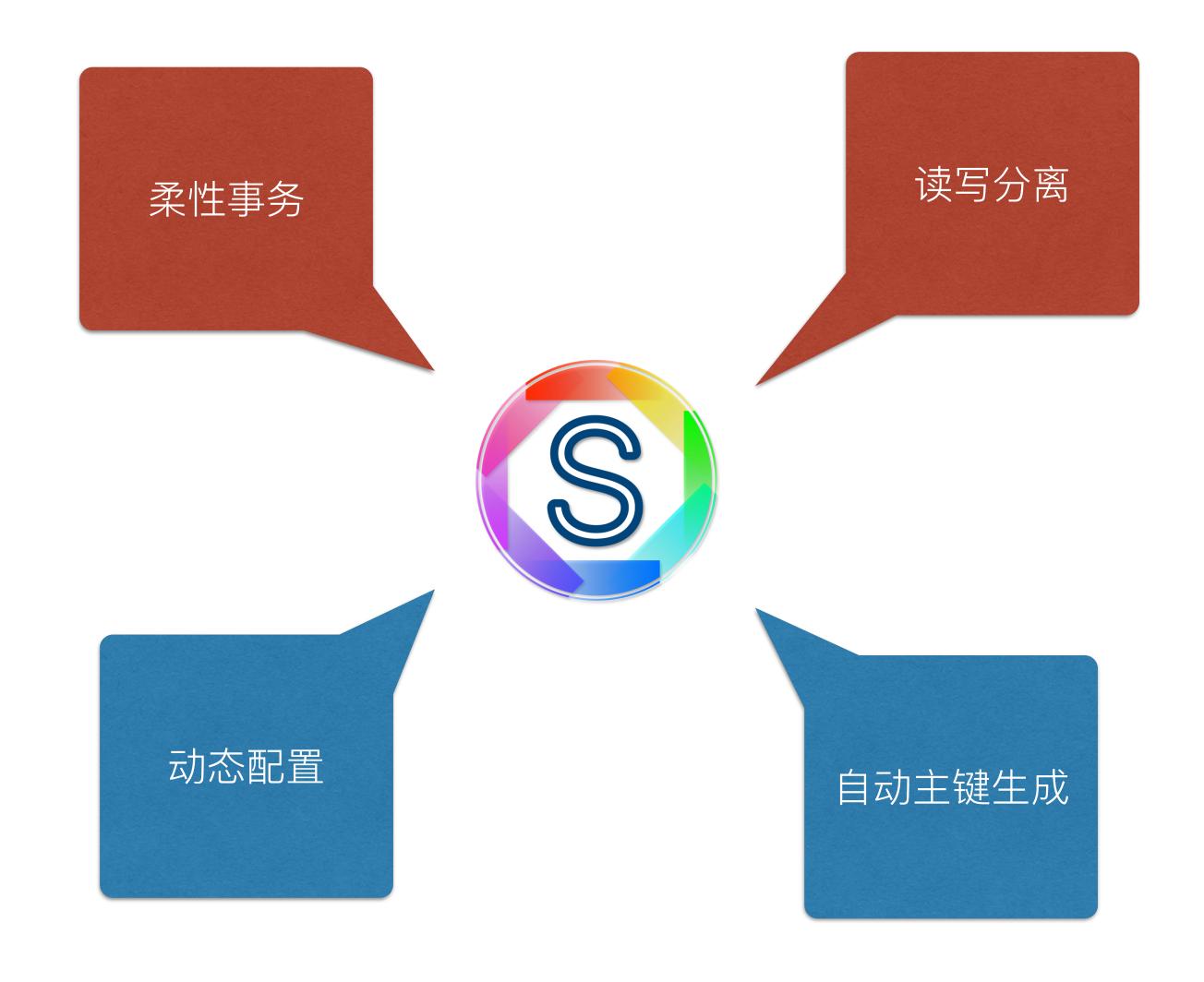








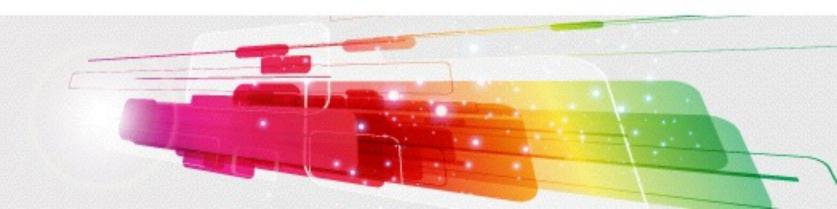












动态配置

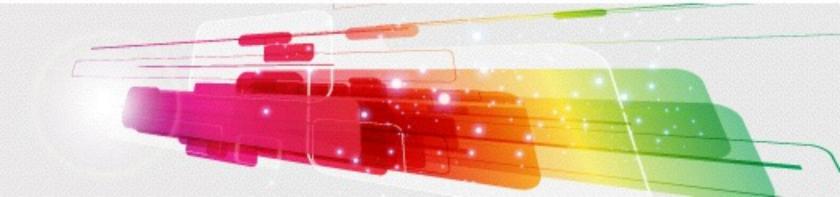
```
public String doEqualSharding(final Collection<String> tableNames, final ShardingValue<Integer> s
for (String each : tableNames) {
    if (each_endsWith(shardingValue_getValue() % 2 + "")) {
        thmExpression: t_order_${order_id.longValue() % 2}
throw new IllegalArgumentException();
```

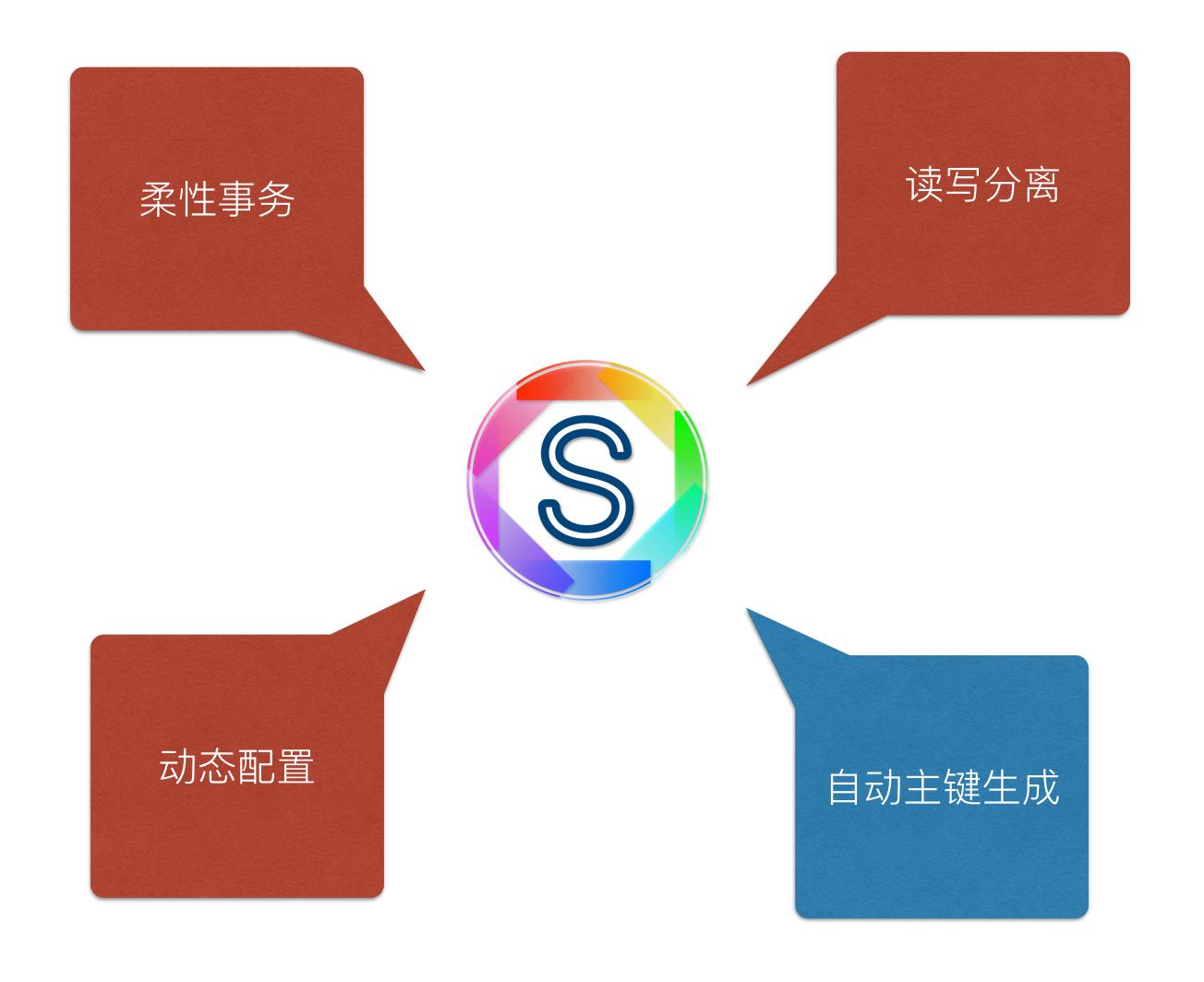


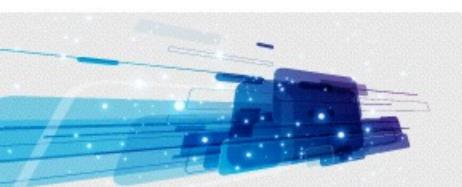






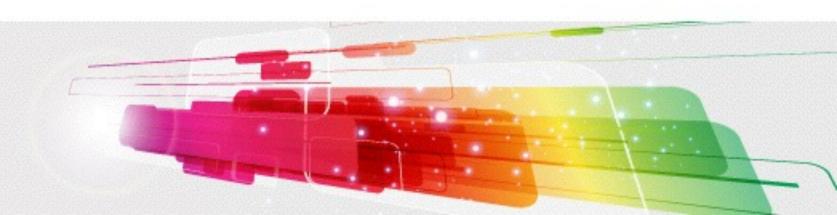












自动主键生成

ORACLE®





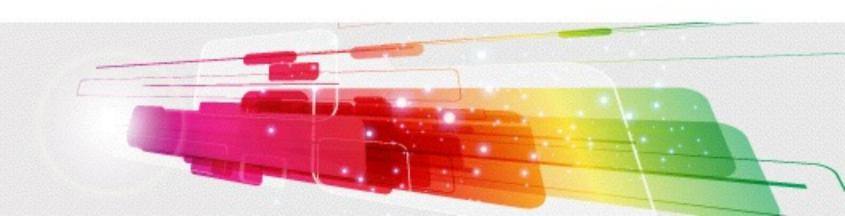












自动主键生成

LAST_INSERT_ID

IDENTITY





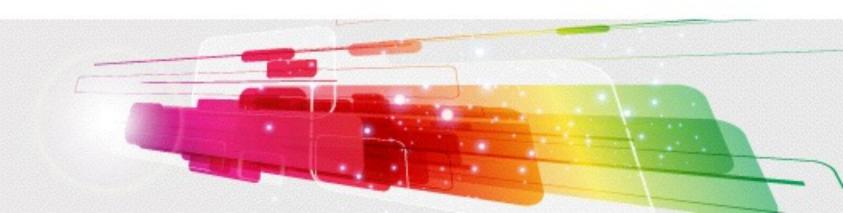
getGeneratedKeys





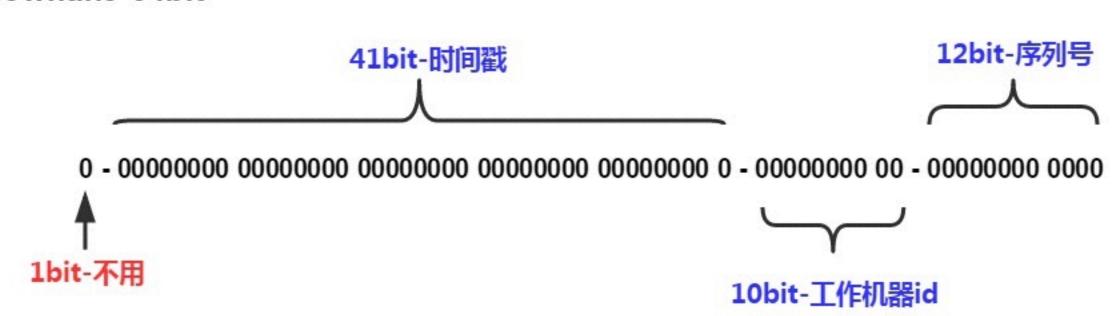






UUID 56B 448b

snowflake-64bit



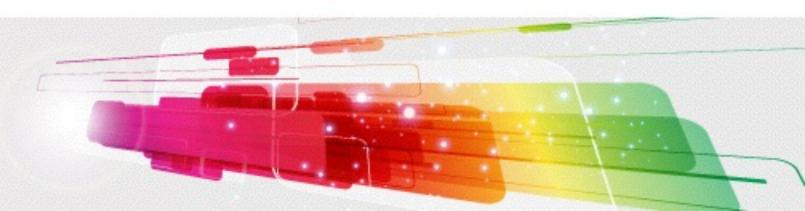












Q & A













