CEDAR 测试案例

修订历史

| 版本 | 修订日期 | 修订描述 | 作者 | 备注 |
|-----------|------------|------------|-----|----|
| CEDAR 0.2 | 2016-09-25 | CEDAR 测试案例 | 李捷荧 | |

表锁

| 编号 | 1 配置 10.11.1.203 单机集群 | | |
|----------------|--|--|--|
| 测试目的 | 单事务单表加锁后进行增删改查操作,看功能是否正常 | | |
| 测试输入 | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | SELECT * FROM t1; | | |
| | COMMIT; | | |
| | | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | insert INTO t1 VALUES(7, 1, '2003-1-1'); | | |
| | COMMIT; | | |
| | | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Update t1 SET value2= 'adc' WHERE id=1; | | |
| | COMMIT; | | |
| | | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Delete from t1 where id=7; | | |
| / - | COMMIT; | | |
| 编号 | 2 配置 10.11.1.203 单机集群 | | |
| 测试目的 | 当一个事务对一张表进行查询操作,在事务结束之前,用其他事务 | | |
| 754.7 D.4A. 7 | 对该表进行加锁操作 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | SELECT * FROM t1; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | UPDATE t1 SET value2=22222 WHERE id=1; | | |

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| | COMMIT; | | |
| | COMMIT; | | |
| 4户口. | 查询、锁表、更新成功 | | |
| 编号 | 3 配置 10.11.1.203 单机集群 | | |
| 测试目的 | 当一个事务对一张表进行更新操作,在事务结束之前,用其他事务 | | |
| 3回い上北今) | 对该表进行加锁操作 | | |
| 测试输入 | | | |
| | START TRANSACTION; | | |
| | INSERT INTO t1 VALUES(4, 4,'ee'); Client2: | | |
| | | | |
| | START TRANSACTION; LOCK TABLE t1; | | |
| | UPDATE t1 SET value1=222 WHERE id=1; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | 插入、更新成功,锁表失败 | | |
| | 加八、文星成为,吸农八州 | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | UPDATE t1 SET value2=111 WHERE id=1; | | |
| | UPDATE t1 SET value1=222 WHERE id=4; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1 锁表成功,更新成功,Client2 更新失败 | | |
| | | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | UPDATE t1 SET value1=11111 WHERE id=1; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | UPDATE t1 SET value1=3333 WHERE id=4; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1 更新成功,Client2 锁表失败,更新成功 | | |
| | | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | DELETE FROM t1 WHERE id=4; | | |
| | Client2: | | |
| | START TRANSACTION; | | |

| LOCK TABLE t1; |
|---|
| COMMIT; COMMIT; Client1 删除成功, Client2 锁表失败, 更新成功 扁号 4 配置 10.11.1.203 单机集群 |
| COMMIT; Client1 删除成功, Client2 锁表失败, 更新成功 扁号 4 配置 10.11.1.203 单机集群 |
| Client1 删除成功,Client2 锁表失败,更新成功 扁号 4 配置 10.11.1.203 单机集群 |
| 扁号 4 配置 10.11.1.203 单机集群 |
| |
| 则试目的 当一个事务对一张表进行加锁后查询操作,在事务结束之前,用事 |
| - 19 - 17 - 17 - 17 - 17 - 17 - 17 - 17 |
| 他事务对该表进行更新操作。 |
| 则试输入 Client1: |
| START TRANSACTION; |
| LOCK TABLE t1; |
| Select * FROM t1; |
| Client2: |
| |
| START TRANSACTION; |
| UPDATE t1 SET value2=11 WHERE id=1; |
| COMMIT; |
| COMMIT; |
| Client1 锁表成功, 查询成功, Client2 更新失败 |
| |
| 扁号 5 配置 10.11.1.203 单机集群 |
| 则试目的 当一个事务对一张表进行加锁后进行更新操作,在事务结束之前 |
| 用其他事务对该表进行更新操作 |
| 则试输入 Client1: |
| START TRANSACTION; |
| LOCK TABLE t1; |
| INSERT INTO t1 VALUES(6, 6, 'FF'); |
| Client2: |
| START TRANSACTION; |
| UPDATE t1 SET value1=66 WHERE id=6; |
| COMMIT; |
| COMMIT; |
| |
| Client1 锁表成功,插入成功,Client2 更新失败 |
| |
| Client1: |
| START TRANSACTION; |
| LOCK TABLE t1; |
| UPDATE t1 SET value2=66 WHERE id=6; |
| Client2: |
| START TRANSACTION; |
| UPDATE t1 SET value1=131 WHERE id=3; |
| COMMIT; |
| COMMIT; |
| Client1 锁表成功,更新成功,Client2 更新失败 |
| |

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| | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | DELETE FROM t1 WHERE id=6; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | UPDATE t1 SET value1=22 WHERE id=1; | | |
| | SELECT * FROM t1; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1 锁表成功,删除成功,Client2 更新失败,查询成功 | | |
| 编号 | 6 配置 10.11.1.203 单机集群 | | |
| 测试目的 | 当一个事务对一张表进行加锁后查询,在事务结束之后,用其他事 | | |
| | 务对该表进行更新操作。 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Select * FROM t1; | | |
| | COMMIT; | | |
| | | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | UPDATE t1 SET value1=141 WHERE id=1; | | |
| | COMMIT; | | |
| | Client1 锁表成功,查询成功,Client2 更新成功 | | |
| 编号 | 7 配置 10.11.1.203 单机集群 | | |
| 测试目的 | 当一个事务对一张表进行加锁后进行更新操作,在事务结束之后, | | |
| | 用其他事务对该表进行更新操作 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | INSERT INTO t1 VALUES(3, 6, EE'); | | |
| | COMMIT; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | UPDATE t1 SET value2=666 WHERE id=3; | | |
| | COMMIT; | | |
| | Client1 锁表成功,插入成功,Client2 更新成功 | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | · | | |
| | LOCK TABLE t1; UPDATE t1 SET value1=1441 WHERE id=3; | | |
| | COMMIT; | | |
| | COMMIT, | | |

| | Client2: | | |
|-------------|--------------------------------------|-----------|---------------------|
| | START TRANSAG | CTION: | |
| | UPDATE t1 SET value2=111 WHERE id=3; | | |
| | COMMIT; | | |
| | Client1 锁表成功,更新成功,Client2 更新成功 | | |
| | Clienti 钡农风切 | ,更利风 | 功,Chem2 史刷成功 |
| | CP - 41 | | |
| | Client1: | CTION | |
| | START TRANSAC | | |
| | LOCK TABLE t1; | | |
| | DELETE FROM t | 1 WHERI | E id =3; |
| | COMMIT; | | |
| | Client2: | | |
| | START TRANSAG | | |
| | UPDATE t1 SET | value1=2 | 22 WHERE id=1; |
| | COMMIT; | | |
| | Client1 锁表成功 | ,删除成 | 功,Client2 更新成功 |
| | | | |
| 编号 | 8 | | 10.11.1.203 单机集群 |
| 测试目的 | 当一个事务对- | 一张表进 | 行加锁操作,在事务结束之前,用其他事务 |
| | 对该表进行加锁 |)操作 | |
| 测试输入 | Client1: | | |
| | START TRANSAG | CTION; | |
| | LOCK TABLE t1; | | |
| | Client2: | | |
| | START TRANSAG | CTION; | |
| | LOCK TABLE t1; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1 锁表成功 | , Client2 | 2 锁表失败 |
| | | | |
| 编号 | 9 | 配置 | 10.11.1.203 单机集群 |
| 测试目的 | 当一个事务对- | | 行加锁操作,在事务结束之后,用其他事务 |
| | 对该表进行加锁 | | |
| 测试输入 | Client1: | 7,1711 | |
| 0/1 (2/101) | START TRANSAG | CTION: | |
| | LOCK TABLE t1; | | |
| | COMMIT; | | |
| | Client2: | | |
| | START TRANSAG | CTION: | |
| | LOCK TABLE t1; | | |
| | COMMIT; | | |
| | · | Cliom40 |) 総主式力 |
| | Client1 锁表成功 | , Chent2 | " 伙众,以为 |
| 4户口 | 10 | 前里 | 10.11.1.202 |
| 编号 | 10 | 配置 | 10.11.1.203 单机集群 |

| 测试目的 | 当一个事务对多张表进行加锁操作,在事务结束之前,用其他事务 | | |
|-----------|--|--|--|
| | 对其中的表进行加锁修改操作 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | LOCK TABLE t2; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | UPDATE t2 SET value2=1234 WHERE id=1; | | |
| | SELECT * FROM t1; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1 锁表成功,Client2 锁表失败,更新失败 | | |
| 编号 | 11 配置 10.11.1.203 单机集群 | | |
| 测试目的 | 当一个事务对多张表进行加锁操作,在事务结束之前加锁过程中, | | |
| | 用其他事务对其中的表进行加锁修改操作 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Insert into t1 values(2,1, 'bb'); | | |
| | UPDATE t1 SET value2=89 where id=1; | | |
| | SELECT * FROM t1; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t2; | | |
| | LOCK TABLE t2; | | |
| | INSERT INTO t2 VALUES(5,3, 'bb'); | | |
| | UPDATE t2 SET value2=478 WHERE id=3; | | |
| | SELECT * FROM t2; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1: t1 表锁表成功,插入成功,查询成功。t2 表锁表失败,插入失败, | | |
| | 查询成功。 | | |
| A D | Client2: t2 表锁表成功, 插入成功 | | |
| 编号 | 12 | | |
| 测试目的 | 不在事务中锁定一张表 | | |
| 测试输入 | LOCK TABLE t1; | | |
| 编号 | 13 配置 10.11.1.203, 10.11.1.201,10.11.1.204 三机集 | | |
| 测试目的 | 在一个事务中锁定一张表,ups 换主后,在另一个事务中锁定同一 | | |
| NA WA EVI | · 张表 | | |
| 测试输入 | Client1: | | |
| がかい付別ノく | START TRANSACTION; | | |
| | on an interior, | | |

| | LOCK TABLE t1; | | |
|------|---------------------------------------|--|--|
| | UPS 换主 | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | | | |
| 编号 | 14 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行锁表操作后,锁定不存在的表 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | insert into t1 values(3,2,'a'); | | |
| | LOCK TABLE t11; | | |
| | insert into t1 values(4,2,'a'); | | |
| | COMMIT; | | |
| | Client1: t1 表锁表成功,插入成功,t11 表锁定失败 | | |
| 编号 | 15 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行锁表操作,错误更新语句, | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | insert into t1 values(5,2,'a'); | | |
| | LOCK TABLE t1; | | |
| | update t1 set value1='aa' where id=1; | | |
| | commit; | | |
| | Client1: t1 表锁表成功,插入成功,更新失败 | | |
| 编号 | 16 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行锁表操作,错误锁表语句 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | insert into t1 values(6,2,'a'); | | |
| | loc table t1; | | |
| | insert into t1 values(7,2,'aa'); | | |
| | commit; | | |
| | Client1: t1 表锁表失败,插入成功 | | |
| 编号 | 17 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行锁表操作,插入主键相同的语句 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | insert into t1 values(12,2,'aa'); | | |
| | insert into t1 values(10,3,'aa'); | | |

| | T | | |
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| | insert into t1 values(13,2,'aa'); | | |
| | commit; | | |
| | Client1: t1 表锁表成功,插入(12,2,'aa') (13,2,'aa')成功(10 主键重复) | | |
| 编号 | 18 | | |
| 测试目的 | 在事务内锁定不存在的表 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t11; | | |
| | insert into t1 values(14,2,'aa'); | | |
| | commit; | | |
| | Client1: t11 表锁表失败, t1 表插入成功 | | |
| 编号 | 19 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行错误更新语句, | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | update t1 set value1= 'hhhh', value2= 'hhhh' where id=1; | | |
| | insert into t1 values(18,2,'accsvv'); | | |
| | commit; | | |
| | Client1: 更新时将 value1 当作 0 更新,插入成功 | | |
| 编号 | 20 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务内进行错误锁表语句 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | insert into t1 values(19,2,'aa'); | | |
| | loc table t1; | | |
| | insert into t1 values(20,2,'aa'); | | |
| | Commit; | | |
| /A F | Client1: t1 表锁表失败,插入成功 | | |
| 编号 | 21 | | |
| 测试目的 | 在事务内插入主键相同的语句 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | insert into t1 values(21,2,'aa'); | | |
| | insert into t1 values(21,3,'aa'); | | |
| | insert into t1 values(22,2,'aa'); | | |
| | commit; Client1: (1 事話) (21 2 'oo') (22 2 'oo') 成功 | | |
| 编号 | Client1: t1 表插入(21,2,'aa') (22,2,'aa') 成功 | | |
| 测试目的 | 22 | | |
| 1/51 1/4 11/3 | 量的更新操作,等事务回滚后,再对该表进行查询操作 | | |
| 测试输入 | Elient1: | | |
| N1 1011/ | START TRANSACTION; | | |
| | SELECT * FROM t1; | | |
| | LOCK TABLE t1; | | |
| L | LOOK HIDEL II, | | |

Replace into t1 (id,value1,value2) values(?,?,?); SELECT * FROM t1 limit 5; 锁表成功,事务回滚,插入失败 Client1: START TRANSACTION; SELECT * FROM t1; LOCK TABLE t1; update t1 set value1=?,value2=? Where id=?; SELECT * FROM t1 limit 5; 锁表成功,事务回滚,更新失败 Client1: START TRANSACTION; SELECT * FROM t1; LOCK TABLE t1; Insert into t1 values(?,?,?); SELECT * FROM t1 limit 5: 锁表成功,事务回滚,插入失败 START TRANSACTION; SELECT * FROM t1; LOCK TABLE t1: delete from t1 where id=?; SELECT * FROM t1 limit 5; 锁表成功,事务回滚,删除失败 编号 配置 10.11.1.201 单集群 在事务内进行锁表操作, 先对该表进行查询操作, 再对该表进行大 测试目的 量的更新操作,结束事务后,再对该表进行查询操作 测试输入 Client1: START TRANSACTION; SELECT * FROM t1; LOCK TABLE t1; Replace into t1 (id,value1,value2) values(?,?,?); COMMIT; SELECT * FROM t1 limit 5; 锁表成功,插入成功 Client1: START TRANSACTION; SELECT * FROM t1; LOCK TABLE t1; update t1 set value1=?,value2=? Where id=?,?,?; COMMIT;

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| | SELECT * FROM t1 limit 5; | | |
| | 锁表成功,更新成功 | | |
| | | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | SELECT * FROM t1; | | |
| | LOCK TABLE t1; | | |
| | Insert into t1 values(?,?,?); | | |
| | COMMIT; | | |
| | SELECT * FROM t1 limit 5; | | |
| | 锁表成功,插入成功 | | |
| | Client1: | | |
| | START TRANSACTION; | | |
| | SELECT * FROM t1; | | |
| | LOCK TABLE t1; | | |
| | delete from t1 where id=?; | | |
| | COMMIT; | | |
| | SELECT * FROM t1 limit 5; | | |
| | 锁表成功,删除成功 | | |
| 编号 | 24 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务中进行大量的锁表操作,看锁表操作是否成功。 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE tn; | | |
| | COMMIT; | | |
| 编号 | 25 配置 10.11.1.201 单集群 | | |
| 测试目的 | 在事务 1 内进行锁表操作,在事务 1 commit 之前,在其他事务中对 | | |
| | 该表进行大量更新操作,看更新是否成功。 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | Replace into t1 (id,value1,value2) values(?,?,?); | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | Client1:锁表成功 | | |
| | Client2:更新失败 | | |
| | Client1: | | |
| | | | |
| | STA2RT TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | Client2: | | |

| | START TRANSACTION; |
|------|--|
| | Insert into t1 values(?,?,?); |
| | COMMIT; |
| | COMMIT; |
| | Client1:锁表成功 |
| | Client2:插入失败 |
| | Chent2.对的人人从 |
| | Client1: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | Client2: |
| | START TRANSACTION; |
| | update t1 set value1=?,value2=? Where id=?,?,?; |
| | COMMIT; |
| | COMMIT; |
| | Client1:锁表成功 |
| | Client2:更新失败 |
| | Chemistry Chapter Chap |
| | Client1: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | Client2: |
| | START TRANSACTION; |
| | delete from t1 where id=?; |
| | COMMIT; |
| | COMMIT; |
| | Client1:锁表成功 |
| | Client2:删除失败 |
| 编号 | 26 配置 10.11.1.201 单集群 |
| 测试目的 | 在事务 1 内进行锁表操作,在事务 1 commit 之前,在其他事务中对 |
| | 该表进行大量锁表操作,看锁表是否成功。 |
| 测试输入 | Client1: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | Client2: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | COMMIT; |
| | COMMIT; |
| | Client1:锁表成功 |
| | Client2: 锁表失败 |
| 编号 | 27 配置 10.11.1.201 单集群 |
| 测试目的 | 在事务 1 内对 t1 表进行大量更新操作,在事务 1commit 之前,在 |
| | 其他事务中重复对该表加锁,看更新是否成功,锁表是否成功。 |

| 测试输入 | Client1: |
|--------|---|
| がいいまして | START TRANSACTION; |
| | replace into t1 (id,value1,value2) values(?,?,?); |
| | Client2: |
| | |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | COMMIT; |
| | COMMIT; |
| | Client1:replace 成功 |
| | Client2: 锁表失败 |
| | |
| | Client1: |
| | START TRANSACTION; |
| | insert into t1 values(?,?,?); |
| | Client2: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | COMMIT; |
| | COMMIT; |
| | Client1: 插入成功 |
| | Client2: 锁表失败 |
| | |
| | Client1: |
| | START TRANSACTION; |
| | update t1 set value1=?,value2=? Where id=?,?,?; |
| | Client2: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | COMMIT; |
| | COMMIT; |
| | Client1: 更新成功 |
| | Client2: 锁表失败 |
| | |
| | Client1: |
| | START TRANSACTION; |
| | delete from t1 where id=?; |
| | Client2: |
| | START TRANSACTION; |
| | LOCK TABLE t1; |
| | COMMIT; |
| | COMMIT; |
| | Client1: 删除成功 |
| | Client2: 锁表失败 |
| 编号 | 28 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 |

| 测试目的 | 在事务 1 锁定 t1 表后,强制换主,看 t1 表是否被释放 | | | | |
|--------------|---|--|--|--|--|
| 测试输入 | Client1: | | | | |
| | START TRANSACTION; | | | | |
| | LOCK TABLE t1; | | | | |
| | | | | | |
| | 强制换主 | | | | |
| | CII: 42 | | | | |
| | Client2: | | | | |
| | START TRANSACTION; LOCK TABLE t1; | | | | |
| | COMMIT; | | | | |
| | COMMIT; | | | | |
| | , | | | | |
| | Client2 锁表失败显示 t1 表已被锁定 | | | | |
| 编号 | 29 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 | | | | |
| 测试目的 | 在事务 1 锁定 t1 表后,每日合并,看 t1 表是否被释放 | | | | |
| 测试输入 | Client1: | | | | |
| | START TRANSACTION; | | | | |
| | LOCK TABLE t1; | | | | |
| | 気口 人 光 | | | | |
| | 每日合并 | | | | |
| | Client2: | | | | |
| | START TRANSACTION; | | | | |
| | LOCK TABLE t1; | | | | |
| | COMMIT; | | | | |
| | COMMIT; | | | | |
| | T1 表被及时释放 | | | | |
| 编号 | 32 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 | | | | |
| | (201 为主) | | | | |
| 测试目的 | 在 201 上对 t1 表进行大量的更新操作,在 203 或 204 上开启事务 | | | | |
| 2017-77-47-7 | 1 锁定 t1 表后,在 203 或 204 上查询 | | | | |
| 测试输入 | replace into t1 (id,value1,value2) values(?,?,?); | | | | |
| | Client1: | | | | |
| | START TRANSACTION; | | | | |
| | LOCK TABLE t1; | | | | |
| | select count(*) from t1; | | | | |
| | commit; | | | | |
| | commit; | | | | |
| | Client2: | | | | |
| | select count(*) from t1; | | | | |
| | | | | | |
| | 201 有时开启不了新链接, 203、204 可以开启新链接 | | | | |

| | ■ 東久 1 山本海岸功 · · · · · · · · · · · · · · · · · · · | | |
|--------------|--|--|--|
| | 事务 1 中查询成功,commit 成功 | | |
| | 事务2中查询成功 | | |
| | | | |
| 编号 | 34 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 | | |
| 测试目的 | 在事务 1 锁定 t1 表后,开启新事务 replace t1 表,在事务 1commit | | |
| | 后,看新事务是否执行成功 | | |
| 测试输入 | Client1: | | |
| V14 W (1114) | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | BOOK HIBBE II, | | |
| | Client2: | | |
| | | | |
| | START TRANSACTION; | | |
| | replace into t1 (id,value1,value2) values(?,?,?); | | |
| | | | |
| | COMMIT; | | |
| | COMMIT; | | |
| | | | |
| | Client1 未 commit 之前 Client2 replace 失败 | | |
| | Client1 commit 之后 Client2 replace 成功 | | |
| | | | |
| 编号 | 35 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 | | |
| 测试目的 | 一边大量 replace,一边 lock table | | |
| 测试输入 | Client1: | | |
| 0.3 % (11.3) | START TRANSACTION; | | |
| | LOCK TABLE t1; | | |
| | COMMIT; | | |
| | · · | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | replace into t1 (id,value1,value2) values(?,?,?); | | |
| | COMMIT; | | |
| /A F | | | |
| 编号 | 36 配置 10.11.1.201 10.11.1.203 10.11.1.204 三集群 | | |
| 测试目的 | 在事务中对 t1 表加排它锁后,进行集群换主 | | |
| 测试输入 | Client1: | | |
| | START TRANSACTION; | | |
| | Select * from t1 where id=1 for update; | | |
| | | | |
| | 集群换主 | | |
| | | | |
| | Client2: | | |
| | START TRANSACTION; | | |
| | Select * from t1 where id=1 for update; | | |
| | and the state of t | | |
| | T1 表被锁定 | | |
| | 11 公汉 贝尼 | | |

Bloom-filter Join

| 编号 | 1 配置 197, 单集群, RS+UPS+CS+MS | | | |
|------|---|--|--|--|
| 测试目的 | 测试 Bloomfilter_joinge 在都为小表无区分 1W 和 50W 情况下两表 | | | |
| | 连接时各连接类型(left,inner, right, full outer)功能是否正常 | | | |
| 测试输入 | on obst1.obstcol7 = obst2.obstcol7; Pass 10010 1.29 sec | | | |
| | | | | |
| | | | | |
| | | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 inner join obst2 on obst1.obstcol7 = obst2.obstcol7; | | | |
| | Pass 428 1.27 sec | | | |
| | | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 right join obst2 | | | |
| | on obst1.obstcol7 = obst2.obstcol7; | | | |
| | Pass 500000 1.68 sec | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 full outer join | | | |
| | obst2 on obst1.obstcol7 = obst2.obstcol7; | | | |
| | Pass 509582 1.68 sec | | | |
| | | | | |
| 编号 | 2 配置 197, 单集群, RS+UPS+CS+MS | | | |
| 测试目的 | 测试 Bloomfilter_join 在都为小表无区分 1W 和 50W 情况下两表连 | | | |
| | 接各相同连接列类型(int, varchar, double, bool, timestamp, decimal) | | | |
| 测试输入 | 功能是否正常 Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | | | |
| 初 | on obst1.obstcol7 = obst2.obstcol7; | | | |
| | Pass 10010 1.27 sec | | | |
| | | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | | | |
| | on obst1.obstcol2 = obst2.obstcol2; | | | |
| | Pass 10000 1.85 sec | | | |
| | Coloot /* ioin/bloomfilton ioin) */ count/*) from abot1 left ioin abot2 | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol3 = obst2.obstcol3; | | | |
| | Pass 10007 1.48 sec | | | |
| | | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst4 left join obst2 | | | |
| | on obst4.obstcol4 = obst2.obstcol4; | | | |
| | Pass 5000000000 1 hour 21 min 15.17 sec | | | |
| | Salaat /* ioin(bloomfilter ioin) */ accent/*) from abott left initialization | | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol5 = obst2.obstcol5; | | | |
| | 011 008(1.008(C01) - 008(2.008(C01), | | | |

| | Pass 10013 1.73 sec | |
|----------------|--|--|
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | |
| | on obst1.obstcol6 = obst2.obstcol6; | |
| | Pass 38762803 41.99 sec | |
| <i>は</i> 戸 □. | | |
| 编号 | 3 配置 197,单集群,RS+UPS+CS+MS | |
| 测试目的 | 测试 Bloomfilter_join 在都为小表无区分 1W 和 50W 情况下两表连 | |
| | 接各不同连接列类型(int, varchar, double, bool, timestamp, decimal) | |
|)H.I.) D.&A. > | 功能是否正常 | |
| 测试输入 | int /double | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | |
| | on obst1.obstcol7 = obst2.obstcol3; | |
| | ERROR 10009 1.90 sec | |
| | | |
| | int/decimal | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | |
| | on obst1.obstcol7= obst2.obstcol6; | |
| | Pass 10000 1.14sec | |
| | | |
| | double/decimal | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 | |
| | on obst1.obstcol3 = obst2.obstcol6; | |
| | ERROR 10000 1.69sec | |
| 编号 | 4 配置 197, 单集群, RS+UPS+CS+MS | |
| 测试目的 | 测试 Bloomfilter_join 在大小表区分明显 1W 和 1000W 情况下,两 | |
| | 表连接各相同连接列类型(int, varchar, double, bool, timestamp, | |
| | decimal)功能是否正常 | |
| 测试输入 | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 | |
| | on obst1.obstcol7 = obst6.obstcol7; | |
| | Pass 12678 53.12 sec | |
| | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 | |
| | on obst1.obstcol2 = obst6.obstcol2; | |
| | Pass 10000 2 min 13.10 sec | |
| | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 | |
| | on obst1.obstcol3 = obst6.obstcol3; | |
| | Pass 13170 2 min 22.46 sec | |
| | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 | |
| | on obst1.obstcol4= obst6.obstcol4; | |
| | | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 | |
| | on obst1.obstcol5= obst6.obstcol5; | |
| | 01 005(1.005(0)) - 005(0.005(0)), | |

| | Pass 13169 1 min 59.20 sec |
|----------------|--|
| | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst6 |
| | on obst1.obstcol6= obst6.obstcol6; |
| | Pass 775195892 15 min 0.23 sec |
| 编号 | 5 配置 197, 单集群, RS+UPS+CS+MS |
| 测试目的 | 测试 Bloomfilter_join 在都为大表无区分 500W 和 1000W 情况下, |
| | 两表连接各相同连接列类型(int, varchar, double, bool, timestamp, |
| | decimal)功能是否正常 |
| 测试输入 | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol7= obst6.obstcol7; |
| | Pass 6562812 3 min 33.15 sec |
| | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol2= obst6.obstcol2; |
| | Pass 5000037 3 min 8.04 sec |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol3= obst6.obstcol3; |
| | Pass 6563351 3 min 0.69 sec |
| | 1 435 030331 3 Hill 0.07 Sec |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol4= obst6.obstcol4; |
| | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol5= obst6.obstcol5; |
| | Pass 6562636 3 min 18.69 sec |
| | |
| | Select /*+ join(bloomfilter_join) */ count(*) from obst5 left join obst6 |
| | on obst5.obstcol6= obst6.obstcol6; |
| 编号 | 6 配置 197, 单集群, RS+UPS+CS+MS |
| 测试目的 | 测试 Bloomfilter_joinge 多表连接各连接类型(left,inner, right, full |
| NH.1 \ D.1.4 \ | outer) 单独使用功能是否正常 |
| 测试输入 | Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from |
| | obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 left join obst3 |
| | on obst2.obstcol7 = obst3.obstcol7; |
| | Pass 10048 53.76 sec |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from |
| | obst1 inner join obst2 on obst1.obstcol7 = obst2.obstcol7 inner join |
| | obst3 on obst2.obstcol7 = obst3.obstcol7; |
| | Pass 189 58.39 sec |
| | 107 30.37 300 |
| | |

| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 right join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 5005100 1 min 4.20 sec Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 full outer join obst2 on obst1.obstcol7 = obst2.obstcol7 full outer join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 5332081 59.72 sec |
|------------|---|
| 编号 测试目的 | 7 配置 197, 单集群, RS+UPS+CS+MS 测试 Bloomfilter_joinge 多表连接各连接类型(left,inner, right, full |
| 炽风口口 | outer)混合使用功能是否正常 |
| 测试输入 | Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w left/inner Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from |
| | obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 inner join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 189 1.62 sec |
| | left/right Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 5000005 1 min 1.15 sec |
| | left/full outer Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 full outer join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 500986 1 min 14.30 sec |
| | inner/right Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 inner join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 10048 58.00 sec |
| | inner/full outer Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 inner join obst2 on obst1.obstcol7 = obst2.obstcol7 full outer join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 501244 1 min 21.30 sec |

| | 1 |
|------|--|
| | right/full outer |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from |
| | obst1 right join obst2 on obst1.obstcol7 = obst2.obstcol7 full outer join |
| | obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 571201 1 min34.30 sec |
| 编号 | 8 配置 197, 单集群, RS+UPS+CS+MS |
| 测试目的 | 测试 Bloomfilter join 多表连接各相同连接列类型(int, varchar, |
| 侧风日的 | double, bool, timestamp, decimal)功能是否正常 |
| 测试输入 | Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 left join obst3 on obst2.obstcol7 = obst3.obstcol7; Pass 10048 58.00 sec |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol2 = obst2.obstcol2 inner join obst3 on obst2.obstcol2 = obst3.obstcol2; Pass 10000 1 min 9.70 sec |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol3 = obst2.obstcol3 left join obst3 on obst2.obstcol3 = obst3.obstcol3; Pass 10040 59.18 sec |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol4 = obst2.obstcol4 inner join obst3 on obst2.obstcol4 = obst3.obstcol4; |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol5 = obst2.obstcol5 right join obst3 on obst2.obstcol5 = obst3.obstcol5; Pass 10059 58.69 sec |
| | Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol6 = obst2.obstcol6 inner join obst3 on obst2.obstcol6 = obst3.obstcol6; Pass 0 25 min 46.16 sec |
| 编号 | 9 配置 197,单集群,RS+UPS+CS+MS |
| 测试目的 | 测试 Bloomfilter_join 多表连接各不同连接列类型(int, varchar, double, bool, timestamp, decimal)功能是否正常 |
| 测试输入 | Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w |
| | · |

int/double

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol3 left join obst3 on obst2.obstcol7 = obst3.obstcol3;

ERROR 44176 3.45 sec

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 left join obst3 on obst2.obstcol3 = obst3.obstcol3;

Pass 44024 3.44s

int/decimal

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol6 left join obst3 on obst2.obstcol7 = obst3.obstcol6:

Pass 91646 3.28s

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 left join obst3 on obst2.obstcol6 = obst3.obstcol6;

Pass 44024 3.45s

double/decimal

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol3 = obst2.obstcol6 left join obst3 on obst2.obstcol3 = obst3.obstcol6;

ERROR 72023 3.74s

Select /*+ join(bloomfilter_join, bloomfilter_join) */ count(*) from obst1 left join obst2 on obst1.obstcol3 = obst2.obstcol3 left join obst3 on obst2.obstcol6 = obst3.obstcol6;

Pass 43609 3.49s

int/double/decimal

编是

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Select /*+ join(bloomfilter_join, bloomfilter_join, bloomfilter_join) from obst1 left join obst2 on obst1.obstcol7 = */ count(*) obst2.obstcol7 inner join obst3 on obst2.obstcol3 = obst3.obstcol3 left join obst4 on obst2.obstcol6 = obst4.obstcol6;

ERROR 737982 53.69 sec

Select /*+ join(bloomfilter join, bloomfilter join, bloomfilter join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol3 inner join obst3 on obst2.obstcol7 = obst3.obstcol6 left join obst4 on obst2.obstcol3 = obst4.obstcol6;

畄住畔

DC+IIDC+CC+MC

Pass 10009 54.57 sec 配署

| 洲丁 | 10 | 月山上山。 コファ | /, 千米研, KSTUI | | |
|------|---------------|-----------------|------------------|-----|-----|
| 测试目的 | 测 试 Mer | ge_join 与 | Bloomfilter_join | 混合多 | 表连接 |
| | (left/inner/r | ight/full outer | ·) 功能是否正常 | | |

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| Select /*+ join(bloomfilter_join,merge_join,bloomfilter_join,merge_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
|--|
| join(bloomfilter_join,merge_join,bloomfilter_join,merge_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| join(bloomfilter_join,merge_join,bloomfilter_join,merge_join) */ count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 right join obst3 on obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| right join obst3 on obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| obst3.obstcol7 = obst4.obstcol7 full outer join obst5 on obst4.obstcol7 = obst5.obstcol7; PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| = obst5.obstcol7; |
| PASS 5166522 3 min 55.22 sec 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| 编号 11 配置 197,单集群,RS+UPS+CS+MS 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| 测试目的 测试 Merge_join 与 Bloomfilter_join 混合多表连接时,根据 join 类型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| 型数与数据表数的关系不对应时,功能是否正常 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 数据量 500w join 类型数 > 数据表数 |
| join 类型数 > 数据表数 |
| l " |
| l " |
| Select /*+ join(bloomfilter_join,merge_join,bloomfilter_join) */ |
| count(*) from obst1 left join obst2 on obst1.obstcol7 = obst2.obstcol7 |
| inner join obst3 on obst2.obstcol7 = obst3.obstcol7; |
| PASS 189 1 min 2.79 sec |
| 当 join 类型数 < 数据表数 |
| Select /*+ join(bloomfilter_join,merge_join) */ count(*) from obst1 |
| left join obst2 on obst1.obstcol7 = obst2.obstcol7 inner join obst3 on |
| obst2.obstcol7 = obst3.obstcol7 inner join obst4 on obst3.obstcol7 = |
| obst4.obstcol7; |
| PASS 8 47.63 sec |
| 编号 12 配置 197, 198, 199, 三集群, RS+UPS+CS+MS |
| 测试目的 测试在每日合并期间,Bloomfilter_join 功能是否正常 |
| 测试输入 Obst1 数据量 1w obst2 数据量 50w |
| 每日合并期间 |
| Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 |
| on obst1.obstcol7 = obst2.obstcol7; |
| PASS |
| 编号 13 配置 197, 198, 199, 三集群, RS+UPS+CS+MS |
| 测试目的 测试在集群换主期间,Bloomfilter_join 功能是否正常 |
| 测试输入 Obst1 数据量 1w obst2 数据量 50w obst3 |
| 集群换主期间 |
| Select /*+ join(bloomfilter_join) */ count(*) from obst1 left join obst2 |
| on obst1.obstcol7 = obst2.obstcol7; |
| PASS |

快照读隔离级别

| 编号 | 1 配置 190: RS、UPS、MS、CS | | |
|--------------|--|--|--|
| 9冊 寸 | 191: RS, UPS, MS, CS | | |
| | 192: RS, UPS, MS, CS | | |
| 测试目的 | 在三集群下,ReadCommitted 和 RepeatableRead 的非事务 select 查 | | |
| 1公10人口口1 | 相是否正确 | | |
| 测试输入 | create table t1 (c1 int primary key, c2 int); | | |
| | insert into t1 values(1,1),(2,2),(3,3); | | |
| | set session tx_isolation='READ-COMMITTED'; | | |
| | select * from t1; | | |
| | set session tx_isolation='REPEATABLE-READ'; | | |
| | select * from t1; | | |
| 编号 | 2 配置 190: RS、UPS、MS、CS | | |
| | 191: RS, UPS, MS, CS | | |
| | 192: RS, UPS, MS, CS | | |
| 测试目的 | 三集群,RepeatableRead 能否防脏读和不可重复读 | | |
| 测试输入 | create table t1 (c1 int primary key, c2 int); | | |
| | for(int i=1;i<=10;i++) | | |
| | insert into t1 values(i,i); | | |
| | | | |
| | 写事务会话 20 个,读事务会话 300 个 | | |
| | 写事务 i 里执行 1 次 | | |
| | update t1 set $c2=c2+1$ where $c1=i$; | | |
| | insert into t1 values(i+10000,i+10000); | | |
| | replace into t1 values(i+20000,i+20000); | | |
| | delete from t1 where c1=i+10000); 读事务里执行 3 次 | | |
| | | | |
| | select * from t1; | | |
| | 第一次在写事务更新操作执行前,第二次在更新操作执行后,第 | | |
| 75 E | 三次在写事务提交后 | | |
| 编号 | 3 配置 190: RS、UPS、MS、CS | | |
| | 191: RS, UPS, MS, CS | | |
| 2512-D FT 44 | 192: RS、UPS、MS、CS | | |
| 测试目的 | 三集群,切换隔离级别,读事务返回结果是否正确 | | |
| 测试输入 | create table t1 (c1 int primary key, c2 int); | | |
| | for(int $i=1; i <=10; i++)$ | | |
| | insert into t1 values(i,i); | | |
| | 1. 全局 RepeatableRead, 读写事务运行过程中, 创建新会话将全 | | |
| | 局隔离级别切换为 ReadCommitted | | |
| | 2. 全局 ReadCommitted,读写事务执行过程中,创建新会话将全 | | |
| | 局隔离级别切换为 Repeatable Read | | |
| | 3. 全局 ReadCommitted,写事务先于读事务结束,读事务会话切 | | |

| | +4 ソ. 人 T D - 1 | | |
|------|---|--|--|
| | 換为会话 RepeatableRead | | |
| | 4. 全局 RepeatableRead,写事务先于读事务结束,读事务会话切 | | |
| | 换为会话 ReadCommitted | | |
| 编号 | 4 配置 190: RS、UPS、MS、CS | | |
| | 191: RS, UPS, MS, CS | | |
| | 192: RS, UPS, MS, CS | | |
| 测试目的 | 三集群,RepeatableRead 能否防止第一类和第二类丢失更新 | | |
| 测试输入 | create table t1(c1 int primary key, c2 int); | | |
| | for(int i=1;i<=10;i++) | | |
| | insert into t1 values(i,i); | | |
| | | | |
| | 第一类丢失更新 | | |
| | transactionA | | |
| | update t1 set c2=c2+2 where c1=1; | | |
| | commit | | |
| | transactionB | | |
| | update t1 set c2=c2-1 where c1=1; | | |
| | rollback | | |
| | rollback 第二类丢失更新 | | |
| | 第一矢公入史刷 transactionC | | |
| | | | |
| | update t1 set $c2=c2+1$ where $c1=1$; | | |
| | commit | | |
| | transactionD | | |
| | update t1 set c2=c2+1 where c1=1; | | |
| | commit | | |
| 编号 | 5 配置 190: RS、UPS、MS、CS | | |
| | 191: RS, UPS, MS, CS | | |
| | 192: RS, UPS, MS, CS | | |
| 测试目的 | 三集群,两种隔离级别下事务能否都读到自己修改但尚未提交的 | | |
| | 数据 | | |
| 测试输入 | create table t1(c1 int primary key, c2 int); | | |
| | for(int $i=1; i <=10; i++)$ | | |
| | insert into t1 values(i,i); | | |
| | | | |
| | ReadCommitted下,readCommittedCount 个事务 | | |
| | for(int i=1;i<=readCommittedCount;i++) | | |
| | { | | |
| | update t1 set c2=c2+1 where c1=i; | | |
| | select * from t1 where c1=i; | | |
| | Solect from the whole chi-i, | | |
| | Deposite blo Dead 下 reposite blo Dead Count 全市夕 | | |
| | RepeatableRead 下,repeatableReadCount 个事务 | | |
| | for(int j= readCommittedCount+1;j <repeatablereadcount;j++)< th=""></repeatablereadcount;j++)<> | | |
| | { | | |
| | update t1 set c2=c2+1 where c1=j; | | |

| | select * from t1 where c1=j; | | | |
|----------|---|--|--|--|
| 编号 | 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192: RS、UPS、MS、CS | | | |
| 测试目的测试输入 | | | | |
| | create table t1(c1 int primary key, c2 int); for(int i=1;i<=10;i++) insert into t1 values(i,i); | | | |
| | 利用案例 2 测试 利用案例 4 测试 利用案例 5 测试 | | | |
| 编号 | 7 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192: RS、UPS、MS、CS | | | |
| 测试目的 | 三集群,故障恢复后 Repeatable 能否正常工作 create table t1(c1 int primary key, c2 int); for(int i=1;i<=10;i++) insert into t1 values(i,i); 1. 杀掉一整个备集群再恢复备集群 2. 杀掉主集群,备切主 3. 杀掉所有集群再恢复 | | | |
| 编号 | 8 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192: RS、UPS、MS、CS | | | |
| 测试目的 | 三集群,RepeatableRead,当一份数据存在非常多的版本,读事务 是否还可重复读 | | | |
| 测试输入 | create table t1(c1 int primary key, c2 int); insert into t1 values(1,1),(2,2),(3,3); 一个会话执行非事务的 10 万次单行更新 update t1 set c2=c2+1 where c1=1; 另一个会话执行读事务,事务包含 10 万次 select c1,c2 from t1 where c1=1; | | | |
| 编号 | 9 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192: RS、UPS、MS、CS | | | |
| 测试目的 | 三集群,RepeatableRead,当一份数据存在非常多的版本,执行每 | | | |

| | 日合并后,该 | 卖事务是 | 否还可重复读 |
|------|---|-----------|----------------------------|
| 测试输入 | create table t1(c1 int primary key, c2 int); | | |
| | insert into t1 values $(1,1)$, $(2,2)$, $(3,3)$, $(10,10)$; | | |
| | | | |
| | 一个会话执行非事务的 10 万次单行更新 update t1 set c2=c2+1 | | |
| | where c1=1; | | |
| | 另一个会话执行读事务,事务包含 10 万次 select c1,c2 from t1 where | | |
| | c1=1; | | |
| | 两个事务执行 | 厅过程中 | 执行每日合并 |
| 编号 | 10 | 配置 | 190: RS, UPS, MS, CS |
| | | | 191: RS, UPS, MS, CS |
| | | | 192: RS, UPS, MS, CS |
| 测试目的 | | | ead,更新事务执行过程中每日合并,rollback |
| | 结果是否正确 | 角 | |
| 测试输入 | create table t1 | (c1 int p | orimary key, c2 int); |
| | insert into t1 | values(1, | 1),(2,2),(3,3),(10,10); |
| | | | |
| | 一个会话执行读事务,事务执行3万次: | | |
| | update t1 set $c2=c2+1$ where $c1=1$; | | |
| | select c1,c2 from t1 where c1=1; | | |
| | | ~19 7/ 1 | |
| | 事务执行更新操作过程中执行每日合并(每日合并开始后事务的 | | |
| | 更新操作将导 | 字致事务 | rollback) |

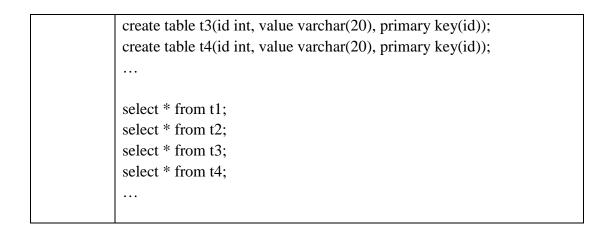
日志同步优化

| 编号 | 1 | 配置 | 190: RS、UPS、MS、CS |
|------|--------------------------------|--------------|---|
| | | | 191: RS、UPS、MS、CS |
| | | | 192-198: RS、UPS、LMS + 6 * (MS + CS) |
| | | | 190、191 为备集群、193 为主集群 |
| | | | 测试机: 199 |
| 测试目的 | 测试在多次 | (换主下, | 集群能否正常提供服务 |
| 测试输入 | | | |
| | 数据表 sch | ema: | |
| | drop table | if exists 1 | reelecttest; create table reelecttest(id int, value |
| | varchar(20), primary key(id)); | | |
| | | | |
| | 周期性换主 | 三,并在换 | 主的过程压有少量的负载(每秒几百条更新操 |
| | 作) | | |
| | | | |
| | 查看集群角 | 自色和换主 | 的相关命令: |
| | ./rs_admin - | -r 10.11.1.1 | 191 -p 31500 get_obi_role |
| | ./rs_admin - | -r 10.11.1.1 | 191 -p 31500 reelect |
| | | | |

| 编号 | 2 配置 | 190: RS、UPS、MS、CS | |
|---------|---|-------------------------------------|--|
| | | 191: RS、UPS、MS、CS | |
| | | 192-198: RS、UPS、LMS + 6 * (MS + CS) | |
| | | 190、191 为备集群、193 为主集群 | |
| | | 测试机: 199 (3MS)、201、202、203 | |
| 测试目的 | 测试在多次换主下, | 集群能否保证数据的一致性 | |
| 测试输入 | │ 各栽 1 | | |
| | 负载 1: | | |
| | 数据表 schema: | | |
| | drop table if exists reelecttest; create table reelecttest(id int, value varchar(20), primary key(id)); | | |
| | 周期性换主,并在换主的过程压有少量的负载(每秒几百条更新操作) | | |
| | 负载 2: | | |
| | 数据表 schema: | | |
| | drop table if exists t1; | | |
| | create table t1 (c1 int primary key, c2 int, c3 varchar(50)); | | |
| | 字符串的平均长度为 25 | | |
| | 向 OB 中插入数据(replace),100 * 6 个线程(主集群每个 MS 连 | | |
| | 接 100 个线程) | | |
| | 共插入 1.2y 条数据 | | |
| | | | |
| | 检查数据表中数据是否有 1.2y 条 set @@session.ob_query_timeout=900000000; | | |
| | select count(*) from t | - | |
| 编号 | 3 配置 | 190: RS, UPS, MS, CS | |
| -7110 7 | HULL | 191: RS, UPS, MS, CS | |
| | | 192-198: RS、UPS、LMS + 6 * (MS + CS) | |
| | | 190、191 为备集群、193 为主集群 | |
| | | 测试机: 199 (3MS)、201、202、203 | |
| 测试目的 | 测试 OB 能否正常进 | 行故障恢复 | |
| 测试输入 | | | |
| | 数据表 schema: | | |
| | drop table if exists t1; | | |
| | create table t1 (c1 int primary key, c2 int, c3 varchar(50)); | | |
| | 插入 120w 条数据到系统中 | | |
| | 故障恢复测试: | | |
| | 1. 杀掉主 ups, 然后再重启, 观察集群是否正常可服务 | | |
| | _ | 然后再全部重启并设主(设置日志最靠前的 | |

| | _ | 主,两种方法确定主 ups: 1.看日志文件多少; 2.看 ups g commit point),观察集群是否正常可服务 | |
|------|--|---|--|
| 编号 | 4 | 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192-198: RS、UPS、LMS + 6*(MS + CS) 190、191 为备集群、193 为主集群 测试机: 199(3MS)、201、202、203 | |
| 测试目的 | 测试 OB fi | | |
| 测试输入 | 数据表 schema: | | |
| | drop table | if exists t1; | |
| | create table t1 (c1 int primary key, c2 int, c3 varchar(50)); 字符串的平均长度为 25 | | |
| | 向 OB 中插入数据(replace),100*6个线程(主集群每个 MS 连接 100 个线程) 共插入 120w 条数据 | | |
| | 作每日合并操作(三次,每次合并前 replace 120w 条数据) | | |
| | 每日合并的相关配置操作: ALTER SYSTEM SET merge_delay_interval = 1 SERVER_TYPE = CHUNKSERVER; ALTER SYSTEM SET min_major_freeze_interval = 1 SERVER_TYPE = UPDATESERVER; ALTER SYSTEM SET min_merge_interval = 1 SERVER_TYPE = UPDATESERVER; | | |
| | 每日合并的相关命令: ./rs_admin -r 10.11.1.193 -p 31500 get_obi_role ./ups_admin -a 10.11.1.193 -p 31701 -t major_freeze ./rs_admin -r 10.11.1.193 -p 31500 stat -o merge | | |
| | 进行多次换主(在高压下换主),每次换主后再进行每日合并(并且前一次每日合并还没有完成)。 | | |
| 编号 | 5 | 配置 190-199: RS、UPS、MS、CS 测试机: 199 (3MS)、201、202、203 非三集群 | |
| 测试目的 | 非3集群 | 是否可以正常服务 | |
| 测试输入 | | 2集群,观察系统是否可以正常服务,性能是否正常 换主、故障恢复和每日合并操作。 | |

数据表 schema: drop table if exists t1; create table t1 (c1 int primary key, c2 int, c3 varchar(50)); 每日合并的相关配置操作: ALTER SYSTEM SET merge_delay_interval = 1 SERVER_TYPE = CHUNKSERVER; min_major_freeze_interval ALTER SYSTEM SET SERVER TYPE = UPDATESERVER; ALTER SYSTEM SET min merge interval = 1 SERVER TYPE = **UPDATESERVER**; 每日合并的相关命令: ./rs_admin -r 10.11.1.190 -p 31500 get_obi_role ./ups admin -a 10.11.1.190 -p 31701 -t major freeze ./rs_admin -r 10.11.1.190 -p 31500 stat -o merge 查看集群角色和换主的相关命令: ./rs_admin -r 10.11.1.190 -p 31500 get_obi_role ./rs admin -r 10.11.1.190 -p 31500 reelect 杀掉主集群 ups, 再重启。 杀掉两个 ups 后,再重启。 配置一个5集群,重复上述测试,观察集群是否正常提供服务。 配置一个7集群,重复上述测试,观察集群是否正常提供服务。 编号 配置 190: RS, UPS, MS, CS 191: RS, UPS, MS, CS 192-198: RS, UPS, LMS + 6 * (MS + CS)190、191 为备集群、193 为主集群 在换主的过程中建表,观察系统是否正常提供服务 测试目的 测试输入 数据表 schema: drop table if exists reelecttest; create table reelecttest(id int, value varchar(20), primary key(id)); 周期性换主,并在换主的过程压有少量的负载(几百条更新操作) 在换主的过程中建表: create table t1(id int, value varchar(20), primary key(id)); create table t2(id int, value varchar(20), primary key(id));



可扩展提交

| | 1 | | |
|------|--------------------------|------------|---------------------------------------|
| 编号 | 1 | 配置 | 190: RS, UPS, MS, CS |
| | | | 191: RS, UPS, MS, CS |
| | | | 192-198: RS、UPS、LMS + 6 * (MS + CS) |
| | | | 190、191 为备集群、193 为主集群 |
| | | | 测试机: 199 (3MS)、201、202、203 |
| 测试目的 | 测试在多集群 | 詳日志强 | 同步下,ScalableCommit 能否正常工作和其 |
| | 基本性能 | | |
| 测试输入 | 向 OB 中插入 | 数据(| replace),100 * 6 个线程(主集群每个 MS 连 |
| | 接 100 个线程 | E) | |
| | 共插入 300W | 条数据 | |
| | | | |
| | 数据表 Schema: | | |
| | drop table if ex | xists t1; | |
| | create table t1 | (c1 int p | orimary key, c2 int, c3 varchar(50)); |
| | 字符串的平均 | 日长度为 | 25 |
| | | | |
| 编号 | 2 | 配置 | 190: RS, UPS, MS, CS |
| | | | 191: RS, UPS, MS, CS |
| | | | 192-198: RS、UPS、LMS + 6 * (MS + CS) |
| | | | 190、191 为备集群、193 为主集群 |
| | | | 测试机: 199 (3MS)、201、202、203 |
| 测试目的 | 在多集群换主 | :情况下 | ,能够保证正确性和持续可服务 |
| 测试输入 | 向 OB 中插入 | 数据(| replace),100 * 6 个线程(主集群每个 MS 连 |
| | 接 100 个线程 | E) | |
| | 计划插入 300 | W 条数 | 据 |
| | | | |
| | 数据表 Schem | na: | |
| | drop table if exists t1; | | |
| | _ | | primary key, c2 int, c3 varchar(50)); |
| | 字符串的平均 | 日长度为 | 25 |
| | | | |
| | | | |

| | 在高负载下强制集群换主(仅一次): | | |
|----------------|---|--|--|
| | ./rs_admin -r 10.11.1.193 -p 31500 get_obi_role | | |
| | ./rs_admin -r 10.11.1.193 -p 31500 reelect | | |
| | wis_ddinin 1 forfiffing p 51500 feefeet | | |
| | set @@session.ob_query_timeout=900000000; | | |
| | select count(*) from t1; | | |
| 编号 | 3 配置 190: RS、UPS、MS、CS | | |
| المالح المالح | 191: RS, UPS, MS, CS | | |
| | 192-198: RS, UPS, LMS + 6 * (MS + CS) | | |
| | 190、191 为备集群、193 为主集群 | | |
| | 测试机: 199 (3MS)、201、202、203 | | |
| 测试目的 | 高负载下执行每日合并系统能否正常可服务 | | |
| 测试输入 | 向 OB 中插入数据 (replace), 100 * 6 个线程 (主集群每个 MS 连 | | |
| 0/3 (24 (11)3) | 接 100 个线程) | | |
| | 计划插入 300W 条数据 | | |
| | 71 ALIAN (200 11 AL 30 VIII | | |
| | 数据表 Schema: | | |
| | drop table if exists t1; | | |
| | create table t1 (c1 int primary key, c2 int, c3 varchar(50)); | | |
| | 字符串的平均长度为 25 | | |
| | 3 13 1 13 7 3 7 3 2 1 | | |
| | 在高负载下强制每日合并(仅一次): | | |
| | ./ups_admin -p 31701 -t major_freeze | | |
| | /rs_admin -r 10.11.1.193 -p 31500 stat -o merge | | |
| | "15_definition 1 10.11111175 p 51500 state 0 merge | | |
| | 使每日合并立刻执行 | | |
| | ALTER SYSTEM SET merge_delay_interval = 1 SERVER_TYPE = | | |
| | CHUNKSERVER; | | |
| | ALTER SYSTEM SET min_major_freeze_interval = 1 | | |
| | SERVER_TYPE = UPDATESERVER; | | |
| | ALTER SYSTEM SET min_merge_interval = 1 SERVER_TYPE = | | |
| | UPDATESERVER; | | |
| | | | |
| | set @@session.ob_query_timeout=900000000; | | |
| | select count(*) from t1; | | |
| | | | |
| 编号 | 4 配置 190: RS、UPS、MS、CS | | |
| | 191: RS、UPS、MS、CS | | |
| | 192-198: RS、UPS、LMS + 6 * (MS + CS) | | |
| | 190、191 为备集群、193 为主集群 | | |
| | 测试机: 199 (3MS)、201、202、203 | | |
| 测试目的 | 测试系统能否正常进行故障恢复 | | |
| 测试输入 | 向 OB 中插入数据(replace),100 * 6 个线程(主集群每个 MS 连 | | |
| | 接 100 个线程) | | |

| | N. N. Lee N. Lee and M. H. H. | | |
|------|---|--|--|
| | 计划插入 300W 条数据 | | |
| | 数据表 Schema: drop table if exists t1; create table t1 (c1 int primary key, c2 int, c3 varchar(50)); 字符串的平均长度为 25 | | |
| | 待数据完全插入以后,在没有的负载的情况下进行每日合并: ALTER SYSTEM SET merge_delay_interval = 0 SERVER_TYPE = CHUNKSERVER; ./ups_admin -p 31701 -t major_freeze ./rs_admin -r 10.11.1.193 -p 31500 stat -o merge | | |
| | 确认每日合并完成后,杀掉所有系统进程(模拟机房断电),然后再重启所有进程并设主(还是设原来的主 UPS 为主)。 | | |
| 编号 | 5 配置 190: RS、UPS、MS、CS 191: RS、UPS、MS、CS 192-198: RS、UPS、LMS+6*(MS+CS) 190、191 为备集群、193 为主集群 测试机: 199(3MS)、201、202、203 | | |
| 测试目的 | 在高负载下,测试 DDL 操作的影响 | | |
| 测试输入 | 向 OB 中插入数据(replace),100 * 6 个线程(主集群每个 MS 连接 100 个线程) 计划插入 300W 条数据 数据表 Schema: drop table if exists t1; create table t1 (c1 int primary key, c2 int, c3 varchar(50)); 字符串的平均长度为 25 | | |
| | 在高负载执行如下建表删表操作: create table t2 (c1 int primary key, c2 int, c3 varchar(50)); create table t3 (c1 int primary key, c2 int, c3 varchar(50)); drop table t2; show tables; | | |