1. 测试环境

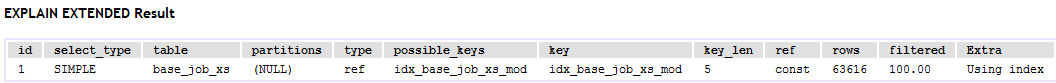
|  |  |
| --- | --- |
| 操作系统 | CentOS Linux release 7.3.1611 (Core) |
| 数据库 | Server version: 5.7.20-log MySQL Community Server (GPL) |

1. 测试场景

## 2.1 数值函数

求余表达式

|  |
| --- |
| CREATE TABLE test.base\_job\_xs  AS SELECT job\_log\_id FROM sfa\_yihaijiali\_fenxiao\_20181120.base\_job\_log;  CREATE UNIQUE INDEX idx\_base\_job\_xs\_uk ON base\_job\_xs(job\_log\_id);  CREATE INDEX idx\_base\_job\_xs\_mod ON base\_job\_xs(mod\_id);  ALTER TABLE base\_job\_xs ADD COLUMN `mod\_id` INT(11) GENERATED ALWAYS AS (MOD(job\_log\_id,7)) STORED;  SELECT COUNT(0) FROM base\_job\_xs WHERE mod\_id=0 |

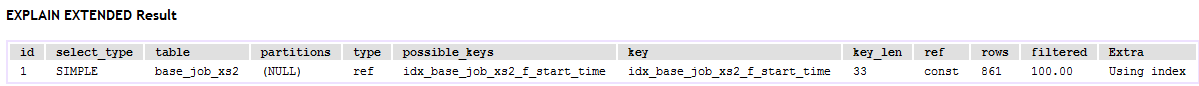


备份恢复测试

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| --- |
| #备份  mysqldump -uroot -p test base\_job\_xs>base\_job\_xs.sql  #清空表  TRUNCATE TABLE base\_job\_xs;  #导入数据  mysql -uroot -p test <base\_job\_xs.sql |

## 2.2 日期函数

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| --- |
| CREATE TABLE test.base\_job\_xs2  AS SELECT job\_log\_id,start\_time FROM sfa\_yihaijiali\_fenxiao\_20181120.base\_job\_log;  SELECT COUNT(0) FROM sfa\_yihaijiali\_fenxiao\_20181120.base\_job\_log2;  SELECT mod\_id,COUNT(0) FROM base\_job\_xs GROUP BY mod\_id  CREATE UNIQUE INDEX idx\_base\_job\_xs2\_uk ON base\_job\_xs2(job\_log\_id);  ALTER TABLE base\_job\_xs2 ADD COLUMN f\_start\_time VARCHAR(10) GENERATED ALWAYS AS (DATE\_FORMAT(start\_time,'%Y-%m-%d')) STORED;  CREATE INDEX idx\_base\_job\_xs2\_f\_start\_time ON base\_job\_xs2(f\_start\_time);  SELECT COUNT(0) FROM base\_job\_xs2 WHERE f\_start\_time='2018-12-18' --861 223291 |



备份恢复测试

|  |
| --- |
| #备份  mysqldump -uroot -p test base\_job\_xs2>base\_job\_xs2.sql  #清空表  TRUNCATE TABLE base\_job\_xs2;  #导入数据  mysql -uroot -p test <base\_job\_xs2.sql |

2.3 用户自定义函数

|  |
| --- |
| DELIMITER $$  USE `test`$$  DROP FUNCTION IF EXISTS `f1`$$  CREATE DEFINER=`ITS\_Managers`@`%` FUNCTION `f1`(n INT) RETURNS INT(11) DETERMINISTIC  BEGIN  RETURN n+10;  END$$  DELIMITER ;  SELECT f1(10);  SELECT \* FROM xs  ALTER TABLE xs ADD COLUMN f1 INT GENERATED ALWAYS AS (f1(age)) STORED;  1 queries executed, 0 success, 1 errors, 0 warnings  查询：ALTER TABLE xs ADD COLUMN f1 int GENERATED ALWAYS AS (f1(age)) STORED  错误代码： 3102  Expression of generated column 'f1' contains a disallowed function. |

# 三、总结

不支持用户自定义函数索引