### 管理服务器数据库CM

2019-05-07 慢查询优化

**select count(\*) as aggregate from `call\_record` where `ccgeid` = '11' and `initiate\_time` between '2019-05-01 00:00:00' and '2019-05-07 23:59:59' and `call\_type` <> 10**

**PRIMARY KEY (`id`,`seid`),**

**UNIQUE KEY `e\_sid` (`seid`,`ccgeid`,`sid`),**

**call\_record表为seid分区，建议添加seid的where条件约束使用e\_sid索引（按理说知道ccgeid 就已经知道seid了）,seid、ccgeid为bigint 不用加引号**

**所有表的where条件都必须有该表的分区字段**

**优化：**

**select count(\*) as aggregate from `call\_record` where `seid`=$seid and `ccgeid` = '11' and `initiate\_time` between '2019-05-01 00:00:00' and '2019-05-07 23:59:59' and `call\_type` <> 10**

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**select `uid`, `displayname`, `number`, `work\_number`, `mobile`, `group\_seat`.`gid` as `pivot\_gid`, `group\_seat`.`uid` as `pivot\_uid`, `group\_seat`.`ccgeid` as `pivot\_ccgeid`, `group\_seat`.`role` as `pivot\_role` from `seat` inner join `group\_seat` on `seat`.`id` = `group\_seat`.`uid` where `seat`.`ccgeid` = '40' and `group\_seat`.`gid` in (1000000255)**

**两个表都是PRIMARY KEY (`id`,`seid`,`ccgeid`)分区，建议where添加两表的分区字段条件**

**优化：**

**select `uid`, `displayname`, `number`, `work\_number`, `mobile`, `group\_seat`.`gid` as `pivot\_gid`, `group\_seat`.`uid` as `pivot\_uid`, `group\_seat`.`ccgeid` as `pivot\_ccgeid`, `group\_seat`.`role` as `pivot\_role` from `seat` , `group\_seat` where`seat`.`id` = `group\_seat`.`uid` and `seat`.`seid`=$seid and `seat`.`ccgeid` = '40' and `group\_seat`.`seid`=$seid and `group\_seat`.`ccgeid` =$ccgeid and `group\_seat`.`gid` in (1000000255)**

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**select \* from `call\_record` where `cc\_number` = 'cc\_pc\_100\_1000\_000207c6\_1557196882\_2072086808' limit 1**

**UNIQUE KEY `cc\_number` (`seid`,`cc\_number`)**

**添加seid字段where条件约束**

**优化：**

**select \* from `call\_record` where `seat`.`seid`=$seid and `cc\_number` = 'cc\_pc\_100\_1000\_000207c6\_1557196882\_2072086808' limit 1**

**如果不知道seid内容只能添加key cc\_number1(cc\_number)索引**

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**select `id`,`sid`,`seid`,`ccgeid`,`ccdid`,`eid`,`cc\_number`,`verdor\_id`,`branch\_id`,`call\_type`,`auto\_route\_call`,`auto\_route\_peer\_ccgeid`,`auto\_route\_peer\_eid`,`outline\_number`,`switch\_number`,`initiator`,`initiator\_callId`,`initiator\_task\_id`,`initiator\_pcall\_id`,`service\_number`,`service\_uid`,`service\_gid`,`state`,UNIX\_TIMESTAMP(initiate\_time),`ring\_time`,`confirm\_time`,`disconnect\_time`,`enter\_ivr\_time`,`last\_enqueue\_time`,`enqueue\_times`,`total\_enqueue\_time`,`last\_seat\_lock\_time`,`last\_seat\_ring\_time`,`seat\_confirm\_time`,`seat\_disconnect\_time`,`announcing\_time`,`conversation\_time`,`record\_time`,`evaluate\_time`,`duration`,`hold\_duration`,`record\_status`,`record\_filename`,`record\_res\_token`,`evaluate\_key`,`evaluate\_value`,`cm\_result\_id`,`cm\_result`,`attribution`,`stop\_reason`,`customer\_fail\_reason`,`stat\_status`,`customer\_id`,`customer\_name`,`customer\_address`,`customer\_company` from emicall\_cc\_man.call\_record where ccgeid=12 AND stat\_status=0 or (stat\_status=1 AND UNIX\_TIMESTAMP(NOW())-updated\_at>86400) limit 100**

**添加seid字段where条件约束**

**优化：**

**select `id`,`sid`,`seid`,`ccgeid`,`ccdid`,`eid`,`cc\_number`,`verdor\_id`,`branch\_id`,`call\_type`,`auto\_route\_call`,`auto\_route\_peer\_ccgeid`,`auto\_route\_peer\_eid`,`outline\_number`,`switch\_number`,`initiator`,`initiator\_callId`,`initiator\_task\_id`,`initiator\_pcall\_id`,`service\_number`,`service\_uid`,`service\_gid`,`state`,UNIX\_TIMESTAMP(initiate\_time),`ring\_time`,`confirm\_time`,`disconnect\_time`,`enter\_ivr\_time`,`last\_enqueue\_time`,`enqueue\_times`,`total\_enqueue\_time`,`last\_seat\_lock\_time`,`last\_seat\_ring\_time`,`seat\_confirm\_time`,`seat\_disconnect\_time`,`announcing\_time`,`conversation\_time`,`record\_time`,`evaluate\_time`,`duration`,`hold\_duration`,`record\_status`,`record\_filename`,`record\_res\_token`,`evaluate\_key`,`evaluate\_value`,`cm\_result\_id`,`cm\_result`,`attribution`,`stop\_reason`,`customer\_fail\_reason`,`stat\_status`,`customer\_id`,`customer\_name`,`customer\_address`,`customer\_company` from emicall\_cc\_man.call\_record where `seid`=$seid and ccgeid=12 AND (stat\_status=0 or (stat\_status=1 AND updated\_at<UNIX\_TIMESTAMP(NOW())-86400)) limit 100**

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**SELECT COUNT(DISTINCT outline\_number) AS COUNT FROM emicall\_cc\_man.call\_detail WHERE ccgeid=4 AND gid = 1000000005 AND (call\_type=0 OR call\_type=13 OR call\_type=12)AND initiate\_time>=1557057600 AND initiate\_time<=1557059399**

**优化：**

**如果这个统计sql触发频率比较高(半小时分ccgeid统计),call\_detail表索引比较少，可以考虑添加KEY `initiate\_time` (`initiate\_time`)索引**

**SELECT COUNT(DISTINCT outline\_number) AS COUNT FROM emicall\_cc\_man.call\_detail WHERE ccgeid=4 AND gid = 1000000005 AND call\_type in (1,13,12) AND initiate\_time>=1557057600 AND initiate\_time<=1557059399**

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**select count(\*) as aggregate from `call\_record` where (`ccgeid` = '12') and `id` >= '43704' and `outline\_number` like '%02557926730%'**

**添加seid字段where条件约束, `outline\_number` like '%02557926730%' 为什么用 like 前后% ？ 新架构入表数据不是已经解决了号码模糊匹配问题了吗**

**优化：**

**select count(\*) as aggregate from `call\_record` where `seid`=$seid and (`ccgeid` = '12') and `id` >= '43704' and `outline\_number` = '02557926730'**

**outline\_number字段 where条件可以 like '02557926730%' 但 like '%02557926730' 是觉得不允许的**

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**select \* from `seat\_realtime\_state` where `ccgeid` = '12' and `seat\_realtime\_state`.`uid` in (1000000030, 1000000040, 1000000043......1000008887, 1000008888)**

**添加seid字段where条件约束**

**优化：**

**select \* from `seat\_realtime\_state` where `seid`=$seid and `ccgeid` = '12' and `seat\_realtime\_state`.`uid` in (1000000030, 1000000040, 1000000043......1000008887, 1000008888)**

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**select count(\*) as aggregate from `sync` where `ccgeid` = '11' and `id` > '23495' and `action` in ('created', 'updated', 'deleted');**

**添加seid字段where条件约束**

**优化：**

**select count(\*) as aggregate from `sync` where `seid`=$seid and `ccgeid` = '11' and `id` > '23495' and `action` in ('created', 'updated', 'deleted');**

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**SELECT \* FROM `emicall\_cc\_man`.`call\_record\_recording` WHERE `cc\_number` LIKE '%cc\_pc\_100\_1000\_000207c6\_1557196882\_2072086808%' LIMIT 0, 1000**

**`cc\_number` LIKE '%cc\_pc\_100\_1000\_000207c6\_1557196882\_2072086808%'**

**优化：**

**cc\_number都不确定就别查了......(人工查的算我没说)**

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**select count(\*) as aggregate from `call\_record` where (`ccgeid` = '2') and `id` >= '43643' and `encrypted\_outline\_number` = 'FCcwENax05e0R4MTxjh8w=='**

**添加seid字段where条件约束**

**encrypted\_outline\_number(加密的客户号码) ，表没有这个字段的索引，能不能使用outline\_number字段替换encrypted\_outline\_number的where条件？如果不行麻烦联系下DBA**

**优化：**

**select count(\*) as aggregate from `call\_record` where `seid`=$seid and (`ccgeid` = '2') and `id` >= '43643' and `encrypted\_outline\_number` = 'FCcwENax05e0R4MTxjh8w=='**

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**select \* from `call\_detail` where `call\_detail`.`cc\_number` in ('03621ff2\_ef1d45d1\_9719303389\_1018d229', '0cfc62a6\_cd269cab\_4807422798\_c686b68d', '1b35959f\_b282d397\_7836555687\_f1ea208e', '1b3a0b88\_181d065f\_8023537591\_1d72eaa9', '336182c7\_ff13799d\_4653402981\_9850f50d', '441ca33d\_d1e03379\_1810482201\_5007c1ca', '6b72a3ee\_16490cac\_9643772048\_3f30f930', '9b5cafba\_665f3131\_1480908870\_e406d1ef', 'a1f7ad5a\_25da680c\_8508391630\_8702815d', 'af802acb\_ee6e411b\_9928807634\_848d7506')**

**优化：**

**如果知道ccgeid内容的话最好在where条件上加上，速度会更快，不知道就算了**

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**select `role`.\*, `role\_user`.`user\_id` as `pivot\_user\_id`, `role\_user`.`role\_id` as `pivot\_role\_id`, `role\_user`.`ccgeid` as `pivot\_ccgeid`, `role\_user`.`seid` as `pivot\_seid` from `role` inner join `role\_user` on `role`.`id` = `role\_user`.`role\_id` where `role\_user`.`user\_id` = 6**

**优化：**

**where添加两表的分区字段条件。知道就加上**

**select `role`.\*, `role\_user`.`user\_id` as `pivot\_user\_id`, `role\_user`.`role\_id` as `pivot\_role\_id`, `role\_user`.`ccgeid` as `pivot\_ccgeid`, `role\_user`.`seid` as `pivot\_seid` from `role`, `role\_user` where `role`.`id` = `role\_user`.`role\_id` and `role\_user`.`user\_id` = 6 and role.seid=$seid and role\_user.seid=$seid and user.ccgeid=$ccgeid**