# Title: DevOps: Adding index on updated\_at columns in baikal slave RDS

1. Connect to master and increase the bin log retention time to 72 hours.
   1. call mysql.rds\_set\_configuration('binlog retention hours', 72);
   2. Verify the increase: call mysql.rds\_show\_configuration;
2. Connect to baikal instance and stop the replication.
   1. call mysql.rds\_stop\_replication;
3. Get the top 50 largest tables from any of the shards with customer data
   1. SELECT table\_name, table\_rows, data\_length, index\_length,round(((data\_length + index\_length) / 1024 / 1024),2) as size\_as FROM information\_schema.TABLES where table\_schema = "freshsales" order by size\_as desc limit 50;
4. Add index on those 50 tables on the baikal shard
   1. Example: alter table leads add index leads\_updated\_at(updated\_at);
5. Once all alter queries are done, start replication
   1. call mysql.rds\_start\_replication;
6. Wait for the slave to catch up to the master. Check for "Seconds Behind Master" from the following command
   1. show slave status \G
7. Once the slave is in sync, reset the bin log retention in master
   1. call mysql.rds\_set\_configuration('binlog retention hours', NULL);
   2. Verify the change: call mysql.rds\_show\_configuration;

alter table email\_conversation\_contents add index email\_conversation\_contents\_updated\_at(updated\_at);  
alter table timeline\_feeds add index timeline\_feeds\_updated\_at(updated\_at);  
alter table email\_conversation\_recipients add index email\_conversation\_recipients\_updated\_at(updated\_at);  
alter table leads add index leads\_updated\_at(updated\_at);  
alter table email\_conversations add index email\_conversations\_updated\_at(updated\_at);  
alter table event\_logs add index event\_logs\_updated\_at(updated\_at);  
alter table contacts add index contacts\_updated\_at(updated\_at);  
alter table lead\_custom\_fields add index lead\_custom\_fields\_updated\_at(updated\_at);  
alter table email\_conversation\_links add index email\_conversation\_links\_updated\_at(updated\_at);  
alter table fullcontact\_details add index fullcontact\_details\_updated\_at(updated\_at);  
alter table page\_views add index page\_views\_updated\_at(updated\_at);  
alter table event\_summaries add index event\_summaries\_updated\_at(updated\_at);  
alter table attachments add index attachments\_updated\_at(updated\_at);  
alter table sync\_details add index sync\_details\_updated\_at(updated\_at);  
alter table contact\_custom\_fields add index contact\_custom\_fields\_updated\_at(updated\_at);  
alter table lead\_emails add index lead\_emails\_updated\_at(updated\_at);  
alter table visitor\_profiles add index visitor\_profiles\_updated\_at(updated\_at);  
alter table custom\_reports add index custom\_reports\_updated\_at(updated\_at);  
alter table conversations add index conversations\_updated\_at(updated\_at);  
alter table lead\_companies add index lead\_companies\_updated\_at(updated\_at);  
alter table stage\_histories add index stage\_histories\_updated\_at(updated\_at);  
alter table lead\_forms add index lead\_forms\_updated\_at(updated\_at);  
alter table sales\_accounts add index sales\_accounts\_updated\_at(updated\_at);  
alter table tasks add index tasks\_updated\_at(updated\_at);  
alter table contact\_emails add index contact\_emails\_updated\_at(updated\_at);  
alter table emails add index emails\_updated\_at(updated\_at);  
alter table sessions add index sessions\_updated\_at(updated\_at);  
alter table sync\_stats add index sync\_stats\_updated\_at(updated\_at);  
alter table notes add index notes\_updated\_at(updated\_at);  
alter table contact\_forms add index contact\_forms\_updated\_at(updated\_at);  
alter table deal\_forms add index deal\_forms\_updated\_at(updated\_at);  
alter table sales\_account\_custom\_fields add index sales\_account\_custom\_fields\_updated\_at(updated\_at);  
alter table sales\_sequence\_list\_trails add index sales\_sequence\_list\_trails\_updated\_at(updated\_at);  
alter table appointments add index appointments\_updated\_at(updated\_at);  
alter table deal\_custom\_fields add index deal\_custom\_fields\_updated\_at(updated\_at);  
alter table deals add index deals\_updated\_at(updated\_at);  
alter table sales\_sequence\_lists add index sales\_sequence\_lists\_updated\_at(updated\_at);  
alter table will\_filter\_filters add index will\_filter\_filters\_updated\_at(updated\_at);  
alter table phone\_calls add index phone\_calls\_updated\_at(updated\_at);  
alter table email\_conversation\_opens add index email\_conversation\_opens\_updated\_at(updated\_at);  
alter table shared\_items add index shared\_items\_updated\_at(updated\_at);  
alter table sales\_activity\_forms add index sales\_activity\_forms\_updated\_at(updated\_at);  
alter table workflow\_automation\_trails add index workflow\_automation\_trails\_updated\_at(updated\_at);  
alter table email\_bulk\_recipients add index email\_bulk\_recipients\_updated\_at(updated\_at);  
alter table contact\_deal\_associations add index contact\_deal\_associations\_updated\_at(updated\_at);  
alter table industry\_types add index industry\_types\_updated\_at(updated\_at);