














































Maintenance et surveillance

Les données on était généré avec les scripts se trouvant sur le repo GitHub de Jean Christophe
<https://github.com/nguyenj-c/Data-Generator-Faker>

<input type="checkbox"/>	Table	Moteur ?	Interclassement ?	Longueur des données ?	Longueur de l'index ?	Espace inutilisé ?	Incrément automatique ?	Lignes ?	Commentaire ?
<input type="checkbox"/>	article	InnoDB	utf8_general_ci	 22,593,536	0	2,097,152	 112,748	~ 111,800	
<input type="checkbox"/>	banque_compte	InnoDB	utf8_general_ci	 5,783,552	0	2,097,152	 112,099	~ 111,896	
<input type="checkbox"/>	centre_equestre	InnoDB	utf8_general_ci	 6,832,128	0	2,097,152	 114,098	~ 113,774	
<input type="checkbox"/>	cheval	InnoDB	utf8_general_ci	 21,512,192	0	2,097,152	 153,495	~ 151,716	
<input type="checkbox"/>	cheval_attribut	InnoDB	utf8_general_ci	 8,929,280	0	2,097,152	 115,099	~ 114,737	
<input type="checkbox"/>	club_hippiques	InnoDB	utf8_general_ci	 6,832,128	0	2,097,152	 118,098	~ 117,810	
<input type="checkbox"/>	concours	InnoDB	utf8_general_ci	 6,832,128	0	2,097,152	 113,918	~ 113,774	
<input type="checkbox"/>	etat	InnoDB	utf8_general_ci	 5,783,552	0	2,097,152	 115,099	~ 114,816	
<input type="checkbox"/>	famille_item	InnoDB	utf8_general_ci	 5,783,552	0	2,097,152	 111,509	~ 110,620	
<input type="checkbox"/>	historiquebanquaire	InnoDB	utf8_general_ci	 7,880,704	0	2,097,152	 120,098	~ 119,904	
<input type="checkbox"/>	infrastructure	InnoDB	utf8_general_ci	 16,269,312	0	2,097,152	 117,397	~ 116,606	
<input type="checkbox"/>	item	InnoDB	utf8_general_ci	 14,172,160	0	2,097,152	 112,497	~ 111,901	
<input type="checkbox"/>	joueur	InnoDB	utf8_general_ci	 458,080,256	0	3,145,728	 1,156,134	~ 1,127,973	
<input type="checkbox"/>	joueur_compte	InnoDB	utf8_general_ci	 14,172,160	0	2,097,152	 108,128	~ 107,515	
<input type="checkbox"/>	journal	InnoDB	utf8_general_ci	 16,269,312	0	2,097,152	 113,982	~ 112,988	
<input type="checkbox"/>	magasin	InnoDB	utf8_general_ci	 9,977,856	0	2,097,152	 106,408	~ 105,922	
<input type="checkbox"/>	niveau	InnoDB	utf8_general_ci	 5,783,552	0	2,097,152	 113,970	~ 113,882	
<input type="checkbox"/>	proprete	InnoDB	utf8_general_ci	 5,783,552	0	2,097,152	 116,226	~ 116,235	
<input type="checkbox"/>	roles	InnoDB	utf8mb4_unicode_ci	 16,384	16,384	0	 2	~ 1	
<input type="checkbox"/>	tache_auto	InnoDB	utf8_general_ci	 9,977,856	0	2,097,152	 116,098	~ 115,701	
<input type="checkbox"/>	Test	MyISAM	utf8_general_ci	 0	1,024	0		0	
<input type="checkbox"/>	Test2	MyISAM	utf8_general_ci	 0	1,024	0		0	
<input type="checkbox"/>	Test3	MyISAM	utf8_general_ci	 0	1,024	0		0	
<input type="checkbox"/>	users	InnoDB	utf8mb4_unicode_ci	 16,384	32,768	0	 9,781	~ 2	
	24 au total	InnoDB	utf8_general_ci	649,281,536	52,224	0			

Le nombre d'enregistrement présent dans nos tables.

Toutes nos tables sont InnoDB donc on a créé 3 tables Test, Test2, Test3 en table MyISAM pour tester nos commandes myisamchk.

```
#!/bin/bash
split -b 1k /var/lib/mysql/horse_sim/Test.MYI test;
test=$(echo test);
IFS=' ' read -a array <<< $test;
cat "${array[0]}" > /var/lib/mysql/horse_sim/Test.MYI;
split -b 1k /var/lib/mysql/horse_sim/Test2.MYI test;
test=$(echo test);
IFS=' ' read -a array <<< $test;
cat "${array[0]}" > /var/lib/mysql/horse_sim/Test2.MYI;
rm test;
```

Les commandes pour vérifier toutes les tables et réparer les erreurs en utilisant les deux méthodes :

MySQL

```

ANALYZE TABLE `article`, `banque_compte`, `centre_equestre`, `cheval`, `cheval_attribut`, `club_hippiques`,
`concours`, `etat`, `famille_item`, `historiquebanquaire`, `infrastructure`, `item`, `joueur`, `joueur_compte`,
`journal`, `magasin`, `niveau`, `proprete`, `roles`, `tache_auto`, `users`;

CHECK TABLE `article`, `banque_compte`, `centre_equestre`, `cheval`, `cheval_attribut`, `club_hippiques`,
`concours`, `etat`, `famille_item`, `historiquebanquaire`, `infrastructure`, `item`, `joueur`, `joueur_compte`,
`journal`, `magasin`, `niveau`, `proprete`, `roles`, `tache_auto`, `users`;

REPAIR TABLE `article`, `banque_compte`, `centre_equestre`, `cheval`, `cheval_attribut`, `club_hippiques`,
`concours`, `etat`, `famille_item`, `historiquebanquaire`, `infrastructure`, `item`, `joueur`, `joueur_compte`,
`journal`, `magasin`, `niveau`, `proprete`, `roles`, `tache_auto`, `users`;

OPTIMIZE TABLE `article`, `banque_compte`, `centre_equestre`, `cheval`, `cheval_attribut`, `club_hippiques`,
`concours`, `etat`, `famille_item`, `historiquebanquaire`, `infrastructure`, `item`, `joueur`, `joueur_compte`,
`journal`, `magasin`, `niveau`, `proprete`, `roles`, `tache_auto`, `users`;

```

Mylsam

Inspecter :

```
myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI
```

Réparer :

```
myisamchk -r -o --fast /var/lib/mysql/horse_sim/*.MYI
```

Optimiser, analyser :

```
myisamchk -a -d --fast /var/lib/mysql/horse_sim/*.MYI
```

Tâches automatisées pour l'inspection, l'optimisation et la défragmentation des tables MyISAM fait avec crontab

```

Apr 5 11:14:01 lamp CRON[4907]: (root) CMD (myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI > /dev/pts/2)
Apr 5 11:15:01 lamp CRON[4924]: (root) CMD (\302myisamchk -r -o --fast /var/lib/mysql/horse_sim/*.MYI)
Apr 5 11:15:01 lamp CRON[4925]: (root) CMD (\302myisamchk -a -d /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:15:01 lamp CRON[4931]: (root) CMD (myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI > /dev/pts/2)
Apr 5 11:16:01 lamp CRON[4942]: (root) CMD (myisamchk -r -o --fast /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:16:01 lamp CRON[4943]: (root) CMD (myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI > /dev/pts/2)
Apr 5 11:16:01 lamp CRON[4944]: (root) CMD (\302myisamchk -a -d /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:17:01 lamp CRON[4994]: (root) CMD (myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI > /dev/pts/2)
Apr 5 11:17:01 lamp CRON[4995]: (root) CMD (myisamchk -r -o --fast /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:17:01 lamp CRON[4996]: (root) CMD (\302myisamchk -a -d /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:18:01 lamp CRON[5015]: (root) CMD (myisamchk -d -c -i -s /var/lib/mysql/horse_sim/*.MYI > /dev/pts/2)
Apr 5 11:18:01 lamp CRON[5017]: (root) CMD (myisamchk -r -o --fast /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)
Apr 5 11:18:01 lamp CRON[5018]: (root) CMD (\302myisamchk -a -d /var/lib/mysql/horse_sim/*.MYI >> /dev/pts/2)

```

Sortie de commande de crontab

```
-----  
MyISAM file:      /var/lib/mysql/horse_sim/Test2.MYI  
Record format:    Fixed length  
Character set:     utf8_general_ci (33)  
Data records:      0 Deleted blocks:      0  
-----  
  
MyISAM file:      /var/lib/mysql/horse_sim/Test3.MYI  
Record format:    Fixed length  
Character set:     utf8_general_ci (33)  
Data records:      0 Deleted blocks:      0  
-----  
  
Total of all 2 MyISAM-files:  
Data records:      0 Deleted blocks:      0  
-----  
  
- recovering (with keycache) MyISAM-table '/var/lib/mysql/horse_sim/Test2.MYI'  
Data records: 0  
-----  
  
- recovering (with keycache) MyISAM-table '/var/lib/mysql/horse_sim/Test3.MYI'  
Data records: 0  
-----  
  
- recovering (with keycache) MyISAM-table '/var/lib/mysql/horse_sim/Test2.MYI'
```

Politique de surveillance du serveur MySQL, on a décidé de journaliser tous les users et écrire les tables sur disque avec le root « adminer ». Aussi on va recharger les privilèges remettre à zéro les variables afin de pas avoir de soucis et repartir de zéro. En plus, il est possible de pouvoir surveiller les thread.

```
mysqladmin -u adminer -ppassword flush-logs  
mysqladmin -u adminer -ppassword flush-tables  
mysqladmin -u adminer -ppassword refresh  
mysqladmin -u adminer -ppassword flush-status  
mysqladmin -u adminer -ppassword flush-privileges  
mysqladmin -u adminer -ppassword flush-hosts  
mysqladmin -u adminer -ppassword processlist
```