

latin1 _utf8mb4 _

- description : Table Encoding
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```
( ** DB Insert )
```

- ERROR 1366 (HY000) : incorrect string value : '\xED\x95\x9C\xEC\x9A\xB0...' for column 'ARTCL_HTML' at row 1

- 4byte CharacterSet 가

- mariaDB utf8 3byte utf8mb4
- (Character Set) (Encoding)

1. DB Character Set . (utf8mb4)
2. DB dump .
3. mariaDB (, 가) .
4. dump DDL utf8mb4 utf8mb4 .
5. dump .
6. mariaDB DB .

1. Character Set

Table Caracter Set

```
SELECT CCSA.character_set_name FROM information_schema.`TABLES` T,
       information_schema.`COLLATION_CHARACTER_SET_APPLICABILITY` CCSA
WHERE
  CCSA.collation_name = T.table_collation
AND
  T.table_schema = "${Database name}"
AND
```

```
T.table_name = "${Table name}";
```

- MySQL database table character set

2. Database dump

```
[root@mysql ~]# mysqldump -uroot -p ${Database Name} -r ${Backup File Name}.sql  
Password:
```

2-1. Dump File Encoding

- file -bi
- Dump utf8 DB utf9mb4

```
[root@mysql ~]# file -bi ${Backup File Name}.sql
```

3. mariaDB

가

* /etc/my.cnf

가

```
#  
# This group is read both both by the client and the server  
# use it for options that affect everything  
#  
[client-server]  
  
#  
# include all files from the config directory  
#  
[mysqld]  
default_storage_engine=innodb  
innodb_buffer_pool_size=445M  
innodb_log_file_size=50M  
max_connections = 10000  
connect_timeout = 600  
wait_timeout = 6000  
max_allowed_packet = 2G  
thread_cache_size = 128  
sort_buffer_size = 4M  
bulk_insert_buffer_size = 16M  
tmp_table_size = 32M  
max_heap_table_size = 32M  
default_storage_engine = InnoDB
```

```
innodb_buffer_pool_size = 4G
innodb_log_buffer_size  = 8M
innodb_file_per_table   = 1
innodb_file_format      = barracuda
innodb_open_files       = 400
innodb_io_capacity       = 400
innodb_flush_method     = 0_DIRECT
```

```
character-set-server=utf8mb4
collation-server=utf8mb4_general_ci
```

```
[client]
```

```
port=${Port}
```

```
default-character-set = utf8mb4
```

```
[mysqldump]
```

```
default-character-set = utf8mb4
```

```
[mysql]
```

```
default-character-set = utf8mb4
```

```
!includedir /etc/my.cnf.d
```

4. dump DDL

- Dump DDL 가 .

```
DROP TABLE IF EXISTS `${Table name}`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `${Table name}` (
  `${column}` ${TYPE} NOT NULL,
  `${column}` ${TYPE} DEFAULT NULL,
  `${column}` ${TYPE} DEFAULT NULL,
  `${column}` ${TYPE} DEFAULT NULL,
  `${column}` ${TYPE} DEFAULT NULL,
  PRIMARY KEY (${COLUMN})
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- DDL CHARSET=utf8;가 CHARSET=utf8mb4; .

Ref

- [\(Character Set\)](#) [\(Encoding\)](#)
[, java, List](#)

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