

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>create database mscmbw;  
use mscmbw;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### create table Trinity  
####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>create table Trinity(  
contig_name varchar(15) primary key not null,  
length int(10),  
path varchar(10000),  
sequence varchar(50000)  
);</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### show all tables in your  
database</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>show tables;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### Check description of your  
table to see if it is what you wanted</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>desc Trinity;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### remove Trinity table  
####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>drop table Trinity;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### remove contents from Trinity  
table ####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>Truncate table Trinity;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### remove contents from table  
with condition ####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>delete from Trinity where length >  
0;</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### import data. DO NOT IMPORT  
TWICE.... ####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>load data local infile  
"/home/you/Trinity.txt" into table Trinity fields terminated by '\t';</font>
```

```
<font inherit/Courier New,Courier,monospace;;#999999;;inherit>#### view contents of table  
####</font>
```

```
<font inherit/Courier New,Courier,monospace;;inherit;;inherit>select * from Trinity;</font>
```

show the first 5 entries in Trinity table

select * from Trinity limit 5;

Display contents of column "length" in Trinity table

select length from Trinity;

select only contigs that have the length less than 500nt

select * from Trinity where length < 500;

count the entries in Trinity table

select count(*) from Trinity;

create CDS table with foreign keys (link to Trinity table)

Alternatively, link the tables manually in alter table, foreign key tab

create table Transdecoder_CDS(
contig_ID_CDS varchar(50) primary key not null,
ORF_type varchar(100),
length int,
strand varchar(5),
original_position varchar(30),
sequence varchar(50000),
contig varchar(15) not null,
foreign key (contig) references Trinity(contig_name)
);

Extract information from two connected tables

In this example, we want to join a table called tableABC, which has columnA, columnB, and columnC; to another called tableXYZ. ColumnA and columnX should share "identifiers"

select tableABC.columnA,
tableABC.columnC, tableXYZ.columnZ
from tableABC, tableXYZ
where tableABC.columnA = tableXYZ.columnX
and tableABC.columnB > 10;

####**Remove foreign keys from table**####
Use when trying to remove foreign keys manually causes mySQL workbench to crash
Apply to the child table , first identify which column is causing foreign key constraints with SHOW CREATE TABLE, then DROP FOREIGN KEY of said column as it appears

SHOW CREATE TABLE mytableXYZ;
ALTER TABLE mytableXYZ DROP FOREIGN KEY columnX;

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