Step 1 : create database

create database call tree
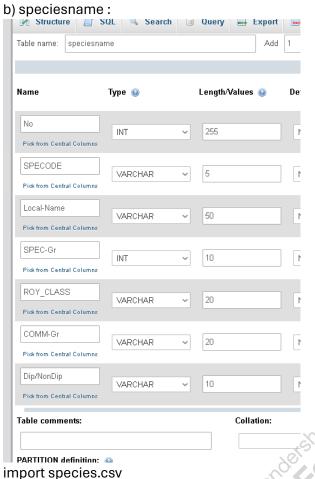
create table named :

 a) scientificname :
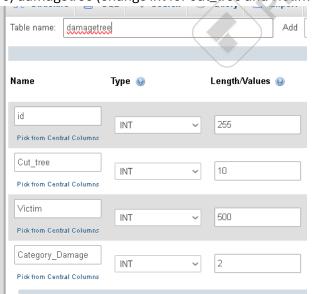

import scientifname. Csv

b) speciesname :

Name	Type	Length/Values	De
No	INT	255	
SPECODE	VARCHAR	5	
Local-Name	VARCHAR	50	
SPEC-Gr	INT	10	
ROY_CLASS	VARCHAR	20	
COMM-Gr	VARCHAR	20	
Dip/NonDip	VARCHAR	10	

Table name: speciesname   Add 1

Table comments: Collation:

PARTITION definition:

import species.csv

c) damagetree (change int for cut_tree and victim to varchar)

Table name: damagetree   Add

Name	Type	Length/Values
id	INT	255
Cut_tree	INT	10
Victim	INT	500
Category_Damage	INT	2

d) victim

#	Name	Type	Collation
1	**victim**	varchar(10)	utf8mb4_general_c
2	**cut_tree**	varchar(500)	utf8mb4_general_c

Check all   With selected:

e) newforestori (set coordinate as varchar sorry mb)

#	Name	Type	Collation	Attributes
1	**Id**	int(11)		
2	**BlockX**	int(10)		
3	**BlockY**	int(10)		
4	**x**	int(100)		
5	**y**	int(100)		
6	**coordinate**	int(10)		
7	**Treenum**	varchar(9)	utf8mb4_general_ci	
8	**species**	varchar(4)	utf8mb4_general_ci	
9	**spgroup**	int(7)		
10	**Diameter**	float		
11	**DiameterClass**	int(10)		
12	**StemHeight**	float		
13	**volume**	float		
14	**status_tree**	varchar(10)	utf8mb4_general_ci	
15	**Cut_Angle**	int(11)		
16	**Damage**	int(11)		

Check all   With selected: Browse   Chan

Step 2 : Run create_forest.php

- Run it for 4 time to get 10 000 ++ data

Step 3 Run Sql Code in the new forest ori

1. UPDATE newforestori INNER JOIN speciesname ON newforestori.species = speciesname.No SET newforestori.species = speciesname.No
2. UPDATE newforestori SET Volume = 3.142 * POW((Diameter / 200), 2) * StemHeight * 0.50
3. UPDATE newforestori SET TreeNum = CONCAT('T', LPAD(BlockX, 2, '0'), LPAD(BlockY, 2, '0'), LPAD(x, 2, '0'), LPAD(y, 2, '0'))
4. UPDATE newforestori SET status_tree = CASE WHEN spgroup IN (1, 2, 3, 5) AND Diameter > 45 THEN 'Cut' WHEN spgroup IN (1, 2, 3, 5) AND Diameter <= 45 THEN 'Keep' ELSE status_tree END
5. UPDATE newforestori SET Cut_Angle = CASE WHEN status_tree = 'Cut' THEN FLOOR(RAND() * 360) + 1 ELSE NULL EN
6. UPDATE newforestori INNER JOIN speciesname ON speciesname.No = newforestori.species SET newforestori.species = speciesname.SPECODE
7. INSERT INTO victim (Victim, cut_tree, Category_damage) SELECT Victim, cut_tree, Category_damage FROM damagetree;

Step 4 : run find_damage.php

- For produce the victim table

Step 5 : run find_victim.php

- For produce the cut table