**Assignment: BOB ROSS**

1. **SET OPERATORS:**

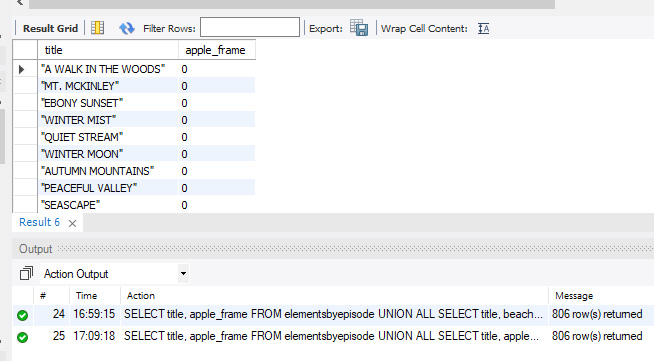
Query:

SELECT title, apple\_frame  
FROM elementsbyepisode  
UNION ALL  
SELECT title, apple\_frame  
FROM copiedtable;

Columns: title, apple\_frame

Expected Row Count: 806

Screenshot:



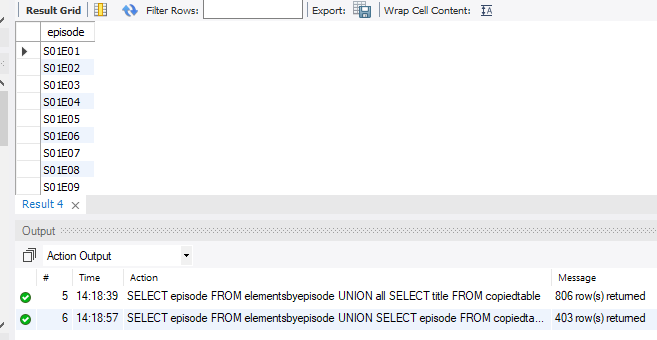
Query:

SELECT episode  
FROM elementsbyepisode  
UNION  
SELECT episode  
FROM copiedtable;

Columns: episode

Expected Row Count: 403

Screenshot:



1. **SUBQUERIES:**

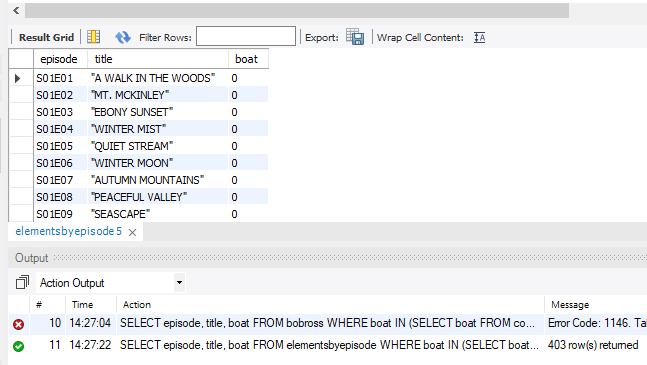
Query:

SELECT episode, title, boat  
FROM elementsbyepisode  
WHERE boat IN (SELECT boat FROM copiedtable);

Columns: episode, title, boat

Expected Row Count: 403

Screenshot:



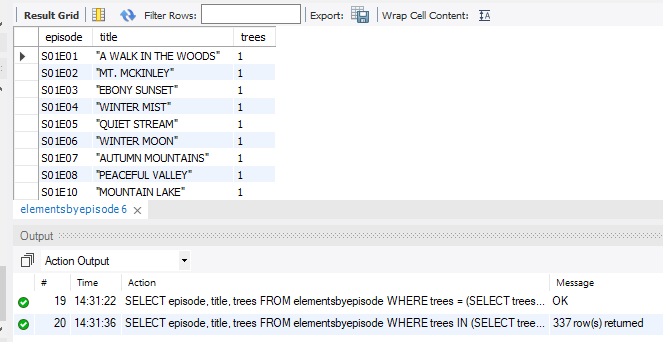
Query:

SELECT episode, title, trees  
FROM elementsbyepisode  
WHERE trees IN (SELECT trees FROM copiedtable  
 WHERE trees >= 1);

Columns: episode, title, trees

Expected Row Count: returned 337

Screenshot:



1. **ORDER OF OPERATION OF QUERIES:**

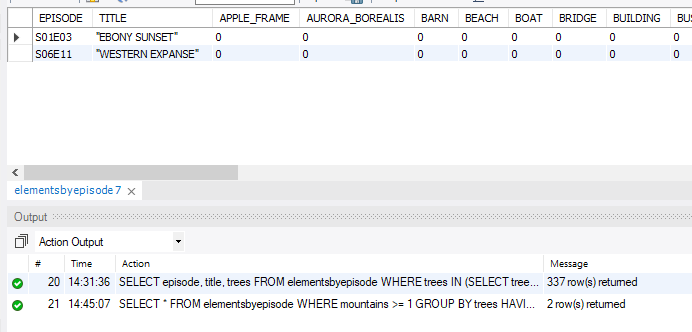
Query:

SELECT \*  
FROM elementsbyepisode  
WHERE mountains >= 1  
GROUP BY trees  
HAVING count(trees) >= 1  
ORDER BY title;

Columns: all

Expected Row Count: returned 2

Screenshot:



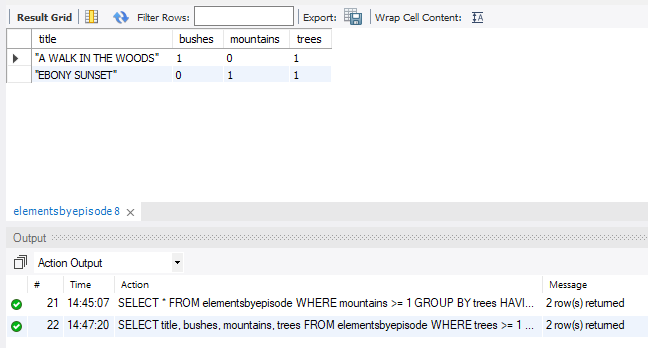
Query:

SELECT title, bushes, mountains, trees  
FROM elementsbyepisode  
WHERE trees >= 1  
GROUP BY mountains  
HAVING count(mountains) >= 1  
ORDER BY title;

Columns: title, bushes, mountains, trees

Expected Row Count: returned 2

Screenshot:



1. **CREATING, ALTERING, AND DROPPING TABLES:**

Query:

CREATE TABLE newtable AS  
SELECT title, bushes, mountains, trees  
FROM elementsbyepisode;

Columns: title, bushes, mountains, trees

Expected Row Count: 403

Screenshot:



Query:

ALTER TABLE newtable   
DROP COLUMN bushes;

Columns: title, mountains, trees

Expected Row Count: 403

Screenshot:



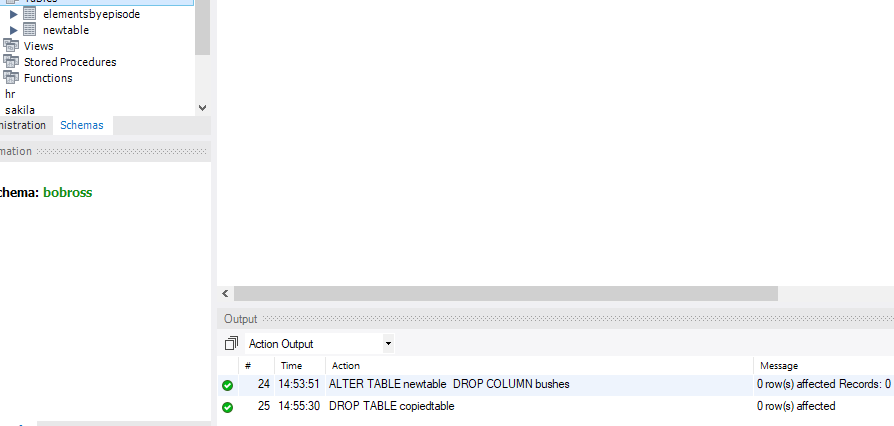
Query:

DROP TABLE copiedtable;

Columns: n/a

Expected Row Count: n/a

Screenshot:



1. **ASSOCIATIONS:**

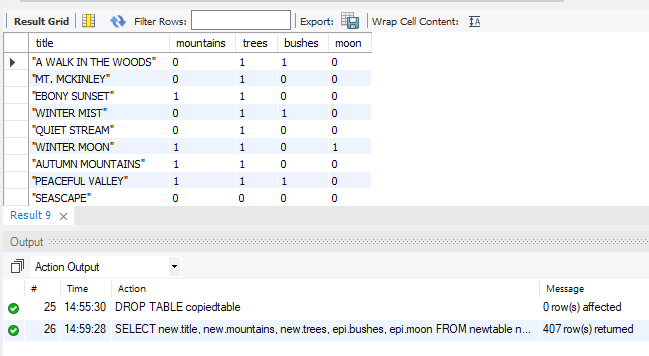
Query:

SELECT new.title, new.mountains, new.trees, epi.bushes, epi.moon FROM newtable new  
JOIN elementsbyepisode epi  
ON new.title = epi.title;

Columns: title, mountains, trees, bushes, moon

Expected Row Count: returned 407

Screenshot:



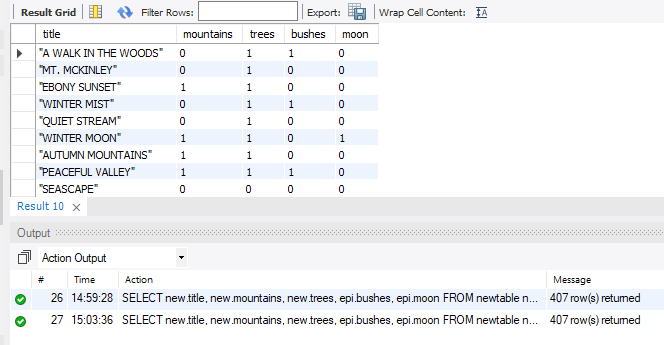
Query:

SELECT new.title, new.mountains, new.trees, epi.bushes, epi.moon FROM newtable new  
LEFT JOIN elementsbyepisode epi  
ON new.title = epi.title;

Columns: title, mountains, trees, bushes, moon

Expected Row Count: returned 407

Screenshot:



1. **JOINS AND MULTIPLE TABLE JOINS:**

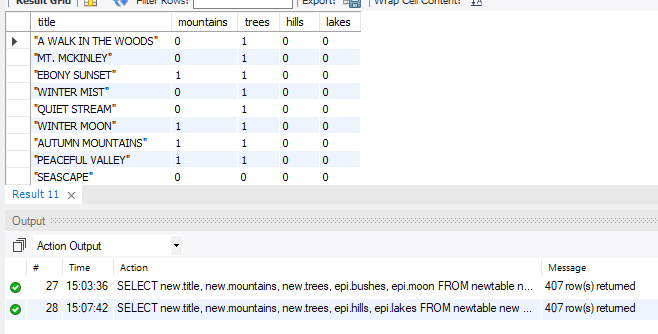
Query:

SELECT new.title, new.mountains, new.trees, epi.hills, epi.lakes FROM newtable new  
RIGHT JOIN elementsbyepisode epi  
ON new.title = epi.title;

Columns: title, mountains, trees, hills, lakes

Expected Row Count: returned 407

Screenshot:



Query:

SELECT epi.title, epi.boat, epi.cactus, new.mountains, new.trees, anew.farm, anew.fence  
FROM elementsbyepisode epi  
JOIN newtable new  
ON epi.title = new.title  
JOIN anothernewtable anew  
ON epi.title = anew.title;

Columns: title, boat, cactus, mountains, trees, farm, fence

Expected Row Count: returned 415

Screenshot:

