

Course: BINF-6211 - Lab 4

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PART 1

A1:

1. > CREATE TABLE species (species_id INTEGER PRIMARY KEY, name);
2. > CREATE TABLE new_gene (
 gene_id INTEGER PRIMARY KEY,
 name,
 full_name,
 chromosome,
 map_location,
 description,
 gene_type,
 modification_date
);
3. > CREATE TABLE gene_to_species (
 gene_id INTEGER,
 species_id INTEGER,
 PRIMARY KEY(gene_id, species_id),
 FOREIGN KEY (gene_id) references new_gene(gene_id),
 FOREIGN KEY(species_id) references species(species_id));

PART 2:

1. > SELECT name FROM gene GROUP BY name ORDER BY gene_id ASC;

PART 3:

1. > Insert into species
Values
(1, "homo_sapiens"),
(2, "mus_musculus");
 2. > INSERT INTO new_gene
SELECT gene_id, name, full_name, chromosome, map_location, description, gene_type,
modification_date FROM gene GROUP BY name ORDER BY gene_id ASC;
 3. > Insert into gene_to_species
Select gene_id, species from new_gene group by name order by gene_id ASC;
- > Update gene_to_species
set species_id = 1

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```
where species_id = "homo_sapiens";  
> update gene_to_species  
set species_id = 2  
where species_id = "mus_musculus";
```