Phase 2 Queries by Cristian Ortiz & Andy Tapia

1) Show all Evolutions of Evee as well as the evolution condition

```
SELECT p_name,e_name, co_condition, Item
FROM Pokemon INNER JOIN Evolve ON p_PokeID = e_PokeID
INNER JOIN Condition ON co_ConditionID = e_ConditionID
WHERE p_name ='Eevee'
```

2) Find the Pokemon with the highest stat combination

```
SELECT p_PokeID,p_name AS Pokemon, MAX(SUM) as Combined_Stats, height,
weight,h_name, pt_type, st_type, s_name,a_name, eg_name
FROM
(SELECT SUM(Attack + Defense+HP+SP_Atk+SP_Def+Speed) AS SUM,
p_PokeID,p_name, height, weight,h_name, pt_type, st_type, s_name,a_name,
eg_name
FROM Pokemon INNER JOIN Stats ON p_PokeID = sts_PokeID
INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID

GROUP BY p_name);
```

3) Provide all Characteristic data for pokemon that live in the Mountains

```
SELECT p_PokeID,p_name, height, weight, pt_type, st_type, s_name,a_name,
eg_name
FROM
```

```
Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
WHERE
h_name = 'Mountain'
GROUP BY p_PokeID;
```

4) Provide all Characteristic data for Pokemon that live in the Sea who are Water 3 and are dual type order by speed

```
SELECT p_PokeID,p_name, height, weight, pt_type, st_type, s_name,a_name,
eg_name, Speed
FROM
Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID
WHERE
h_name = 'Sea' AND
eg_name = 'Water 3'
AND
st_type NOT LIKE 'N/A%'
GROUP BY p_PokeID
ORDER BY Speed DESC;
```

5) List all pokemon data and evolution conditions who evolve by items(including the item)

```
SELECT p_PokeID, p_name, Item, e_EvoID, e_name
FROM Evolve,
Pokemon,
Condition
WHERE p_PokeID = e_PokeID AND
co_ConditionID = e_ConditionID AND
e_ConditionID = '3';
```

6)Find Pokemon with the ‘Bug’ as their type

```
select p_name
from Pokemon, PrimaryType
where pt_type = 'Bug' AND pt_PtypeID = p_PtypeID
Group by p_name;
```

7) List all Species and how many Pokemon are in each species.

```
SELECT s_name,
Count(p_name)
FROM Species,
Pokemon
WHERE p_SpeciesID = s_SpeciesID
GROUP BY s_name;
```

8) Provide all data in the pokedex for each pokemon

```
SELECT *
FROM
(SELECT p_PokeID,p_name, height, weight,h_name, pt_type, st_type,
s_name,a_name, eg_name,HP,Attack, Defense, SP_Atk, Speed, Male, Female,
Egg_cycle
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID);
```

9)**List all data for genderless Pokemon**

```
SELECT *
FROM
(SELECT p_PokeID,p_name, height, weight,h_name, pt_type, st_type,
s_name,a_name, eg_name,HP,Attack, Defense, SP_Atk, Speed
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID= b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID
Where Male = '0' AND Female = '0');
```

10) **Find the Pokemon evolution line with the lowest base stats**

```
SELECT * FROM
(SELECT p_name AS Pokemon, MIN(SUM) as Combined_Stats
FROM
(SELECT SUM(Attack + Defense+HP+SP_Atk+SP_Def+Speed) AS SUM,p_name,
e_name
FROM Pokemon INNER JOIN Stats ON p_PokeID = sts_PokeID
INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN Evolve ON e_PokeID = p_PokeID
GROUP BY p_name)
group by p_name
order by sum
limit 2),
(SELECT e_name, MIN(SUM) as combined
FROM(
SELECT e_name, SUM(HP+Defense+Attack+Speed+SP_Def+SP_Atk) as sum
FROM Evolve, Stats
WHERE
sts_PokeID=e_EvoID
GROUP by e_name));
```

11)Find overall best defensive Pokemon of each “Grass” type

```
SELECT *
FROM
(SELECT p_PokeID,p_name, height, weight,h_name, pt_type, st_type,
s_name,a_name, eg_name, Defense
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID
WHERE (pt_type='Grass' OR st_type='Grass')
ORDER BY Defense DESC limit 1)
```

12) Which egg group take the most egg cycles to hatch that are not undiscovered EggGroup

```
SELECT SUM(Egg_cycle), eg_name
FROM Pokemon,
Breeding,
EggGroup
WHERE eg_name != 'Undiscovered' AND
b_PokeID = p_PokeID AND
eg_EggID = b_EggID
GROUP BY eg_name
HAVING max(Egg_cycle)
Order BY Egg_cycle DESC LIMIT 1
```

13) List the Egg Group with the most pokemon

```
SELECT eg_name , MAX(ct)
FROM(
SELECT eg_name, COUNT(p_name) as ct
FROM Pokemon
INNER JOIN Breeding ON b_PokeID=p_PokeID
INNER JOIN EggGroup ON eg_EggID = b_EggID
GROUP BY eg_name);
```

14)Find the Data for Pokemon that are female dominant who live in either grassland or mountains that are a single type.

```
SELECT *
FROM
(SELECT p_PokeID,p_name,Male, Female, height, weight,h_name, pt_type, st_type,
s_name,a_name, eg_name,HP,Attack, Defense, SP_Atk, Speed
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID= b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID
WHERE Female > Male
AND
h_name IN ('Mountain','Grassland'))
```

15) Which dual-type Pokemon have a higher attack stat than the avg of all Pokemon and a lower than average Defense

```
SELECT *
FROM
(SELECT p_PokeID,p_name, pt_type, st_type, Attack, Defense
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Stats ON p_PokeID = sts_PokeID
WHERE
st_type <> 'N/A'
AND
Attack > (SELECT AVG(Attack) FROM Stats)
AND
Defense < (SELECT AVG(Defense) FROM Stats)
)
ORDER BY Attack DESC;
```

16)Find the difference in weight of the lightest Pokemon from the heaviest pokemon while listing the heaviest and lightest pokemon

```
SELECT HEAVY, hweight, LIGHT, lweight, hweight - lweight as difference_lbs
FROM
(SELECT p_name as HEAVY, MAX(Weight) as hweight
FROM Pokemon),
(SELECT p_name as LIGHT, MIN(Weight) as lweight
FROM Pokemon)
```

17) Insert Tiny Mouse into Species table

```
INSERT INTO Species (s_name) values('Tiny Mouse')
```

18) As a Admin Insert Pichu Pokemon

```
INSERT INTO Pokemon ( p_name, Height, Weight, p_HabitatID,
p_PtypeID,p_StypeID, p_SpeciesID, p_AbilityID, p_entry )
VALUES ('Pichu', '1', '4.4', '3', '8', 'N/A', '98','28','It still can’t use electricity well. When it’s surprised or excited, it discharges electricity unintentionally.')
```

19) Update Pichu Abilities from Static(28) to Lightning Rod(15)

```
UPDATE Pokemon
SET p_abilityID = '15'
WHERE p_PokeID = 153;
```

20) Find a Pokemon that is over 500 lbs, that is a single type, who lives in the mountains, is part of monster egg group, whose HP is more than the average HP of all pokemon

```
SELECT *
FROM
(SELECT p_PokeID,p_name, height, weight,h_name, pt_type, st_type,
s_name,a_name, eg_name,HP,Attack, Defense, SP_Atk, Speed, Male, Female,
Egg_cycle
FROM Pokemon INNER JOIN PrimaryType ON pt_PtypeID = p_PtypeID
INNER JOIN SecondaryType ON p_StypeID = st_StypeID
INNER JOIN Species ON p_SpeciesID = s_SpeciesID
INNER JOIN Ability ON p_AbilityID = a_AbilityID
INNER JOIN Habitat ON h_HabitatID = p_HabitatID
INNER JOIN Breeding ON p_PokeID=b_PokeID
INNER JOIN EggGroup ON b_EggID = eg_EggID
INNER JOIN Stats ON p_PokeID = sts_PokeID
WHERE
h_name = 'Mountain' AND
Weight > '500' AND
eg_name = 'Monster' AND
HP > (
SELECT avg(HP) FROM Stats)
);
```