**SECTION 4 : WINDOWING / ANALYTIC FUNCTIONS**

**CREATE VIEW my\_Pokemon AS**

**SELECT name,total,hp,attack,defense,sp\_atk,sp\_def,speed,type1,type2**

**FROM poke**

**WHERE name IN**

**('Bulbasaur','CharizardMega Charizard X','Staraptor','Goodra','Pikachu',**

**'Sceptile','Snorlax','Infernape','Greninja','Heracross','Metagross','Lapras')**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,total,type1,type2,**

**SUM(total) OVER(ORDER BY name ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW)**

**AS Running\_Total;**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,hp,type1,type2,**

**AVG(hp) OVER(ORDER BY name ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW)**

**AS AVG\_HP;**

------------------------------------------------------------------

**drop view my\_pokemon;**

------------------------------------------------------------------

**FROM poke**

**SELECT name,total,hp,attack,type1,type2,**

**AVG(attack) over(PARTITION BY (type1,type2) ORDER BY total) AS AVG\_ATTACK;**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,hp,defense,attack,type1,type2,**

**SUM(attack) OVER(PARTITION BY (type1) ORDER BY name ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW)**

**AS Total\_Attack**

------------------------------------------------------------------

**FROM poke**

**SELECT name,total,hp,attack,type1,type2,**

**ntile(5) over(PARTITION BY (type1,type2) ORDER BY total) AS rank\_in\_distribution;**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,hp,defense,attack,type1,type2,**

**rank() OVER(ORDER BY attack desc,defense desc) AS rank\_Attack**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,hp,defense,attack,type1,type2,**

**rank() OVER(ORDER BY attack desc,defense desc) AS rank\_Attack**

------------------------------------------------------------------

**FROM my\_Pokemon**

**SELECT name,hp,speed,type1,type2,**

**speed-lead(speed,1) OVER(ORDER BY speed desc) AS diff\_speed**

------------------------------------------------------**THE END** --------------------------------------------