***/\*SQL Week2\*/***

***# 1) Afisati continentele in ordine alfabetica.***

**SELECT** **distinct** a.Continent

**FROM** country\_facts a

**ORDER** **BY** a.Continent;

***# 2) Afisati coloanele Country si Population in ordine descrescatoare dupa Populatie.***

**SELECT** a.Country, a.Population

**FROM** country\_facts a

**ORDER** **BY** a.Population **DESC**;

***# 3) Afisati primele 10 tari in ordine descrescatoare dupa Internet\_Users.***

**SELECT** a.Country

**FROM** country\_facts a

**ORDER** **BY** a.Internet\_Users **DESC**

**LIMIT** 10;

***# 4) Identificati tara cu cea mai mare speranta de viata (Life\_Expectancy).***

**SELECT** a.Country, **MAX**(a.Life\_Expectancy) **as** SperantaViata

**FROM** country\_facts a

**GROUP** **BY** a.Country

**ORDER** **BY** **MAX**(a.Life\_Expectancy) **DESC**

**LIMIT** 1;

***# 5) Identificati tarile urbanizate (Urban\_Percentage) in proportie de 100%.***

**SELECT** a.Country

**FROM** country\_facts a

**WHERE** a.Urban\_Percentage=100;

***# 6) Identificati tarile din Europa care incep cu litera E, respectiv tarile din Asia si Africa care incep cu litera A.***

**SELECT** a.Country, a.Continent

**FROM** country\_facts a

**WHERE** a.Continent='Europe' **AND** a.Country **LIKE** 'E%'

**OR** a.Continent **IN** ('Asia','Africa') **AND** a.Country **LIKE** 'A%';

***# 7) Cunoscand numarul populatiei si numarul userilor de internet, aflati tara cu rata cea mai ridicata de utilizatori de internet raportat la numarul populatiei tarii respective. Nu vom lua in considerare tarile din Europe, United States si Canada.***

**SELECT** a.Country, a.Internet\_Users/a.Population

**FROM** country\_facts a

**WHERE** a.Continent<>'Europe' **AND** a.Country **NOT** **IN** ('United States','Canada')

**ORDER** **BY** 2 **DESC**

**LIMIT** 1;

***# 8) Pentru fiecare continent in parte calculati ce procent reprezinta turistii din toate tarile de pe continent raportat la populatia continetului respectiv.***

**SELECT** a.Continent, **SUM**(a.Tourists)/**SUM**(a.Population)\*100 **AS** ProportieTuristi

**FROM** country\_facts a

**GROUP** **BY** a.Continent;

***# 9) Identificati tara cu Status 'Developed' si cu cel mai mic GDP, respectiv tara cu Status 'Developing' si cu cel mai mare GDP . Nu vom lua in considerare tarile cu GDP=0.***

(**SELECT** a.Country, a.GDP

**FROM** country\_facts a

**WHERE** a.`Status`='Developed' **AND** a.GDP>0

**ORDER** **BY** a.GDP

**LIMIT** 1)

**UNION**

(**SELECT** a.Country, a.GDP

**FROM** country\_facts a

**WHERE** a.`Status`='Developing' **AND** a.GDP>0

**ORDER** **BY** a.GDP **desc**

**LIMIT** 1);

***# 10) Pentru fiecare animal in parte (din coloana National\_Animal) calculati numarul tarilor pe care apare acesta. Nu afisati randul cu (NULL)***

**SELECT** a.National\_Animal, **COUNT**(a.Country) CountryNumber

**FROM** country\_facts a

**WHERE** a.National\_Animal **IS** **NOT** **null**

**GROUP** **BY** a.National\_Animal

**ORDER** **BY** CountryNumber **desc**

***# 11) Identificati si afisati tara fiecarui continent cu cea mai mare populatie. Solutia optima presupune utilizarea lui: row\_number() over (partition by col1 order by col2 desc) as Rowid. Col1 si col2 vor fi coloanele potrivite din tabelul country\_facts.***

**SELECT** b.Continent, b.Country

**FROM** (

**SELECT** a.Continent, a.Country, **ROW\_NUMBER**() **OVER** (**PARTITION** **BY** a.Continent **ORDER** **BY** a.Population **DESC**) Rowid

**FROM** country\_facts a) b

**WHERE** Rowid=1

***# 12) Stiind ca World\_Share reprezinta procentul populatiei tarii raportat la intreaga populatie a lumii, calculati separat proportia procentuala cu 2 zecimale si comparati-o cu valoarea gasita in cmpul World\_Share. Gasiti primele 3 tari cu diferenta cea mai mare intre calculul vostru si valoarea deja calculata in World\_Share.***

***-- aflu populatia totata pe care o includ in formulele de mai jos***

**SELECT** **SUM**(Population) **FROM** country\_facts ;

**SELECT** a.Country,

a.World\_Share,

a.Population/7700660058\*100,

**ABS**(a.World\_Share - a.Population/7700660058\*100)

**FROM** country\_facts a

**ORDER** **BY** **ABS**(a.World\_Share - a.Population/7700660058\*100)**DESC**

***-- functia ABS (absolut) transforma in valori pozitiv diferenta.***