# QUERIES EXECUTED ON 06TH MAY, 2022

Database : world (available in default in MYSQL workbench)

Tables overview:

City Table:

Graphical user interface, text

Description automatically generated

Country Table:

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Description automatically generated

Country Language Table :

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-- AGGREGATE COMMANDS (COUNT, SUM, MIN, MAX, AVERAGE)

**MAX**

select Name,CountryCode,Population from city

where population=(select max(population) from city );

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**MIN**

select Name,CountryCode,Population from city

where population=(select min(population) from city );

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Description automatically generated**

**SUM**

select city.CountryCode,country.Name,sum(city.Population) from city

inner join country on city.CountryCode=country.Code

group by country.Code,country.Name

order by 3 desc;

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Description automatically generated**

**COUNT**

-- count

select city.CountryCode,country.Name,sum(city.Population) as Country\_Population,count(city.ID) as Total\_cities from city

inner join country on city.CountryCode=country.Code

group by country.Code,country.Name

order by 4 desc;

Graphical user interface, application

Description automatically generated

**AVG**

-- avg

select city.CountryCode,country.Name,sum(city.Population) as Country\_Population,count(city.ID) as Total\_cities,avg(city.Population) as Avg\_Population from city

inner join country on city.CountryCode=country.Code

group by country.Code,country.Name

order by 5 desc,4;

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select department\_id, sum(salary), avg(salary), min(salary), max(salary), count(employee\_id)

from emp

group by department\_id;



**SUB QUERIES**

-- sub queries

-- city with max population within its country

select Name,Population,CountryCode from city c1

where c1.Population=(select max(c2.Population) from city c2 where c2.CountryCode=c1.CountryCode);

Graphical user interface, text, application, email

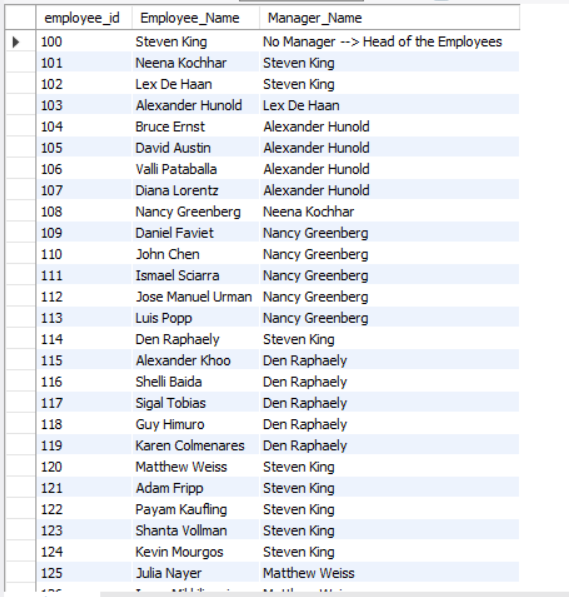
Description automatically generated

-- CONDITIONAL STATEMENT ( CASE WHEN)

select e1.employee\_id, concat(concat(e1.first\_name,' '),e1.last\_name) as Employee\_Name, case when e1.manager\_id is not null then

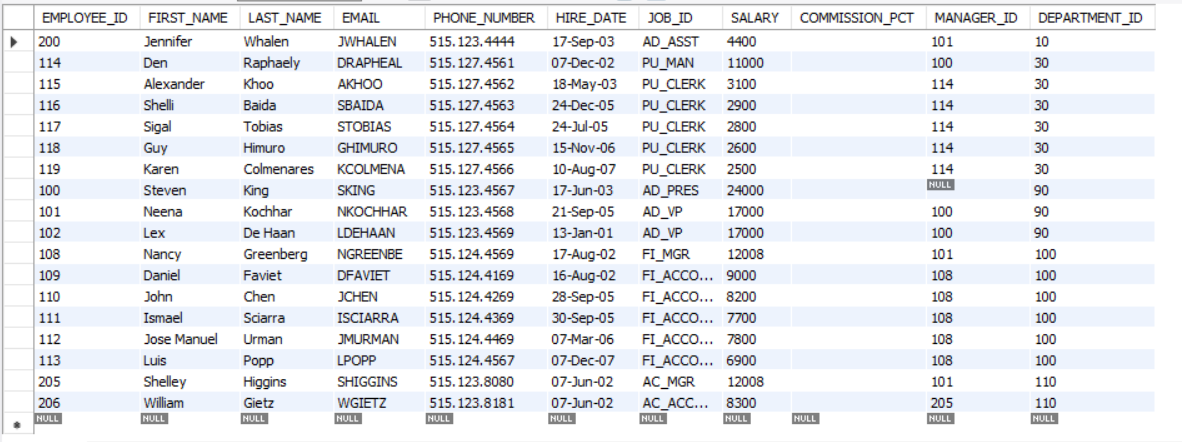
(select concat(concat(e2.first\_name,' '),e2.last\_name) from emp e2 where e2.employee\_id=e1.manager\_id) else 'No Manager --> Head of the Employees' end

as Manager\_Name from emp e1;



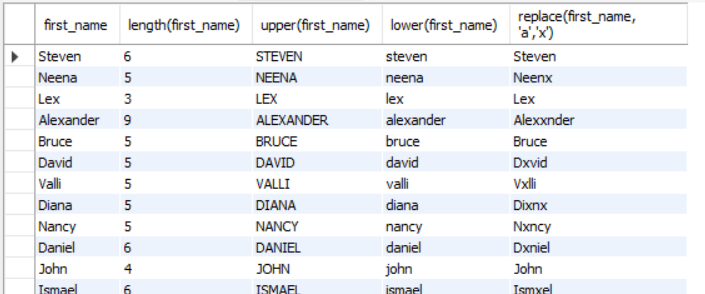
-- SUBQUERIES

select \* from emp where department\_id in (select department\_id from dept where location\_id=1700);



-- "STRING FUNCTIONS ( LENGTH, UPPER, LOWER, REPLACE, TRIM, LTRIM, RTRIM, CONCATENATION, SUBSTRING, LIST AGGREGATION )"

select first\_name, length(first\_name), upper(first\_name), lower(first\_name), replace(first\_name, 'a','x') from emp;



**String Functions**

select District,char\_length(District),lcase(District),ucase(District),

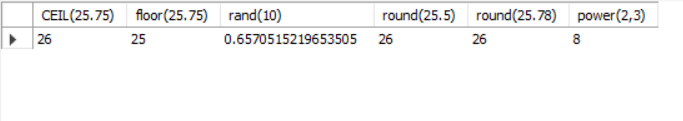
REPLACE(District,"bol","alob") from city;

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-- "MATHEMATICAL FUNCTIONS (CEIL & FLOOR, RANDOM, SETSEED, ROUND, POWER )"

SELECT CEIL(25.75), floor(25.75), rand(10), round(25.5), round(25.78), power(2,3);



-- "DATE-TIME FUNCTIONS (CURRENT DATE & TIME, AGE, EXTRACT)"

select curdate(), curtime(), current\_timestamp(), extract(month from curdate());

