**MySQL Database Formula**

#create database employeedetails;

# create database employee

# **Create - table in database with necessary field-----------------------------**

create table employee (

ID int not null primary key,

Name varchar(50) not null,

Gender char(1) not null,

Age int not null,

Address varchar(100) not null,

Phone\_Number varchar(10) not null,

Email varchar(50) not null

# Constraint name check ( age >=30 and address = 'Texas')

);

**# Insert - Used to insert data into table--------------------------------------------**

insert into employee(ID, Name, Gender, Age, Address, Phone\_Number, Email) values

(13, 'Austin Daniel' , 'F', 25, 'Bostan', '4434233366', 'daniel@gmail.com');

**# Select - Used to retrieve data from table---------------------------------**

select \* from employee;

describe employee;

select \* from employee where gender='M';

Select \* from employee where age = 42;

select \* from employee where age > all (select age from employee where age <40);

select \* from employee order by id desc;

select \* from employee order by age asc;

**# select - and or in not in -----------------------------**

select \* from employee where name in('Kamal Saru');

select \* from employee where name not in('Kamal Saru');

select \* from employee where gender='M' or age=42;

select \* from employee where gender='M' and age=42;

select \* from employee where id = 4 and age= 27 or address ='Texas';

**# Select - min and nax value, ave, sum, count-------------------------------------**

select Min(age) as yougest\_Age from employee;

select Max(age) as oldest\_Age from employee;

select count(id) from employee;

select ave(age) from employe;

**# Select like or begin middle end-----------------------------------**

select name from employee where name like'A%';

select email from employee where email like '%yahoo%';

select email from employee where email like'%gmail%';

select name from employee where name like '%l';

**# Distinct - provides unique values from a given table,Pass column name as parameter-----**

select distinct name from employee;

select distinct (address) from employee;

select distinct age from employee;

**# Between - operator is inclusive: begin and end values are included. can be numbers, text or date**

select \* from employee where age between 25 and 35;

select \* from employee where id between 4 and 8;

select \* from employee where age between 25 and 35 and id not in (1,2,3);

select \* from employee where name between 'Ramon Janel' and 'Adams Vera' order by employee;

**# select any or all----------------------------------------------------------------**

select name from employee where id = (select id from address where age<40);##

**# Rename to existing column-----------------------------------------------------**

#alter table myfirstproject.employee rename Firs\_Name to First\_Name;

**# Update - Used to update data into table-------------------------------------**

update myfirstproject.employee set name ='Kamal Rana' where id=1;

update employee set remarks ='Thank Yoy!!!' where id =3;

update myfirstproject.employee set dob ='1989-07-23' where id =7;

update employee set salary ='120000' where ID =1;

update employee set salary ='125000' where id =6;

update employee set Firs\_Name ='Mahomad', Last\_Name = 'Khali' where id = 6;

update myfirstproject.employee set salary='78000' where age < 27;//

**# Alter - change table configuration such as updating data type of a column, adding or deleting columns---------------**

alter table employee modify column id int not null auto\_increment;

alter table employee AUTO\_INCREMENT = 101;

alter table employee add Last\_Name varchar(25) not null after name;

alter table employee add Firs\_Name varchar(25) not null after name;

alter table employee add Remarks varchar(100) not null after salary;

alter table employee add DOB date null after gender;

alter table employee rename employee\_Details;

alter table employee Change column name ctype varchar(30) not null;

alter table myfirstproject.employee add DOB date not null;

alter table employee drop column DOB; #drop the column

alter table myfirstproject.employee add salary float null;

alter table employee drop column Firs\_Name;

alter table employee drop column last\_Name;

**# Delete - used to delete data from table--------------------------------------------------**

delete from employee where id=11;

delete from employee where email like '%gmail%';

delete from employee where age =27 and id = 4;

**# truncate - removal all record from the table----------------------------------------------**

truncate table employe;

**# Drop - delete the table from database-----------------------------------------------------**

drop table employee;

drop table studentlist;

drop database employee;

**# Case statements---------------------------------------------------------------------------**

select age,

case

when age >40 then 'The age is older.'

when age = 40 then 'The age is exact.'

else 'The age is younger.'

end as age from employee;

select age, gender from employee order by

(case when age then gender

else age

end);

**# Inner, Left and Right joining in students and marksheet**

Select Id, name, gender, dob, age, address, phone\_number, email from students join marksheet on students.id=marksheet.Marksheet\_ID;

select Roll\_No, students\_Name, Math, Science, English, Nepali, Opt\_Math, Total\_Mark, Percentage, Grade, marksheet\_ID from marksheet right join students on marksheet.Marksheet\_ID=students.ID;

select Roll\_No, students\_Name, Math, Science, English, Nepali, Opt\_Math, Total\_Mark, Percentage, Grade, marksheet\_ID from marksheet left join students on marksheet.Marksheet\_ID=students.ID;