

Extract(): Entract day, date, year from particular column. was to display finame, I name , his date from Employees who was bound in month of July. Scheit f-name, L-name, hisi date from Employees where Extract (month from fixedate) = 7; p 100 big of 311 who to find all the details of Employee who was hired in 2012 from Employees where entract (year from hire-date)=20/2; WAR to find out the details of employee who was killed on the day to Select * been from Employees set to pot too took to bound to and where Entract (day from his data) = 103 hours to the will *Wha to fun display Employee id, f-name, day of joining, month of joining & year of joining from Employees. Select Employee_id, f-name, extract (day from hire-date) as "day", extract (month from hire-date) as "month" entract (year from hire-da 3) 9/19 troins amployees; but alt then the epolo to some Mulli Row functions / Group/Aggrigate: -Multi Row functions are such functions where multi now input or single now input there is only single row output. 1. Count () Nell values all > olp not allowed. 2. Sum () 3. Aug () 4. min () 5. Max () 1. Count ()! - only one argument It is used to count no of rows in a column or table. It can accept column or * Keyword as argument.

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noted to court from Englance toole
Sum ()!
   It is used to add the values in the column.
Aug () !-
 gr is used to get the average of a particular column ine
   count() = Aug ()
Min ()
  It is used to get the lowest walke in the column.
Max ()
   It is used to get the Highest value in the Column.
who to count the no of employees in a table.
                                    who is hound manager, is
   Select count (+) no-of inputs giving 1 now as olp.
   Josom Employees; 1/20
Who to find the total salvy and boing the polytile of
     Select Sum ( salary)
      forom Employees; 11 4,48000
was to find any of salary. In the planner grigate of same
  Select avg (salaxy) <u>sum()</u> 4,48000

from Employees; Al 22400
                       Consecutive t in their frame.
      select sum (salary) / count (salary)
 was to find min and Max of a salary.
       Select min (salary), max (salary)
       from Employees; // 8500 53000
 * Min and Max () can also fives characters -> olp will come according
         Select Min (Pirst_name), Hax (Rist_name) to alphabets.
               ₽ Brown
                              Uthod
```

```
who to count frame from Employees table
      Select count (f-name)
      from Employees; 1120
was to count no of Employees and total salaxy whose working
in dept-1d do.
       Select count (+), Sum (salary)
       from employees count salary
       where depart-id = 20; 1/ 2 39000
      to display half no of employees working in a company.
      Select tournaing (x) (ount (x)/2 0p: -20/2 = 10
       from Employees;
WAR
     to find total salary, min salary, highest salary and avg salary
     is having manager_id.
who
        Select Sum (salary), min (salary), max (balary), avg (salary)
                                                        OIP: 235500
        where manager id 15 NOT MULL;
                                            seurd(aug(salazy),2), 26166.62
WAQ
      to display first hired employee.
         Select min (hited_date)
          from Employees; 1/16-APY-07
         display siecently hied employee
MARQ
           Select max (Hired_date)
           from Employees; 11 27- Aug-12
        display number of flist name & total salary who is 2
Consecutive i in their f-rame.
          Select (tunt (flist-name), sum (salary)
            where first name Like 1% 11 %;
Group By clause ! -
       It is used to group the identical rows in the column.
 group by clause is used after where claux. Group by clause can be
used without where clause as well.
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WHO to display dept-id and total salary for all Employees in each
 department.
       Select department-id, sum (salary)
                                                    Hover Clauses.
        from emplayees
        group by department_id;
                                   I was of high he people promise
      Olp: olepartment_id
                                salary
                 90
                                60000
                    18 years 390001 bis bi-test birt of Dallie
                 20
   29945 THE BALL SHE
                 110
                          where may salong is greater togoss Morcoo
  1965 1009 of 197160 12 20 partio 955,000 of w bi topb yellaid of agent i
               must start at 61/9/500 seepstame to the fine start
* WAR to display lowest salary and dept-id for each department.
* display dept-id, highest salary for each dept whose dept-id is greater
  than 50.
* Who to count no. of employees working as station clerk in each
 dept.
+ WAR to find min and max wages given to employees in each dept.
      Select department_id, min (salary)
                                  difference to where and thering
       from employees
        group by department-id;
+ Select dept -id, max (salary)
                                                  24000
                                       0/P1
                                            90
      from employees
                                            110
                                                  19500
                                            80
       group by department id > 50
                                                 36000
                                                  26000
       group by department id;
    Select count (*)
    from Employees
     where job-id = station-clerk
     group by department_8d;
```

* Select min (salary) max (salary) opp min max dept-id 34000 . 90 17000 from employees 19500 19500 group by dept-id; Having Clause: -+ It is used to filter the group function. * Having clause is used to write a condition on a group function. * Having clause executes after group by clause. *INFO to find dept-id and highest salary for all the employees whose max-salary is greater than 20,000. * INAQ to display dept-id who is working as 'ST-CLERK' in each dept Make sure that no of employees should be more than 2.

* Who to obtain highest salary for an employee only if the no of employee working in the company is more than 10. * Select dept-1d , max (salary) prom employees group by department id vip separ vert has aim being it are having max (salary) > 20,000 difference blw where and Having where Having * Executes new by now * Executes group by group. * 9t is used to check the condition * 9t is eased to check the cordition before grouping on a normal colum. after group by on a group function. * Cannot use multipour function in 4 Can ase multipow function in where clause. having clause.

* Select dept side no of make looked the 1900 persons of the from employees warp profes you plant but at not starte of where Job-id = 67 -CLERK sin do papetros dito in mesoso doc group by dept id his train of theman Arius having count (x) > a; * Select max (salary) from employees group by dept-id having count (*) >10; harman of general to the top of the to Order By Clause! -It is used to assange the susult set in either ascending or descending order. * 9t should always be used in the last statement of the query. * We can order the table using multiple columns. * By default order by clause sorts the result in ascending order. * WAR to display frame in ascending order * INAQ to display f-name in ascending & 1-name in descending order * IN the to display salony in ascending Order. * Select &-name from employees Orda by f-name ASC; * Select t-name, last-name from employees - Frame is depend on Fram Order by f-name Asc, last-name desc; * Select salary from employees Order by salary Asc;

who to display dept-id, highest salary for all employees whose dupts, is greater than 10 and having max salary greater than 20000 for each depostment. while displaying data display it in descending order with geopect to dept-id. Select (5) Select dept-id, max (salary) //columns from 1) tran employees /) Table where group by 3 > group by dept-id 11 group rows having Describer dept-id > 10 /1 condition on we order by having max (salary) > 200000 11 Condition on a GF 6 Order by dept-id desc; 11 marge the Result. * 3 select f-rame, salary *12 as "Annual Salary" 1 prom employees @ where salary + 12 > 25000 4 Order by "Annual salary" Asc; Sub Query | Inner | Nested :-* Output of subquery is given as an input to the main query ite

* Subquery is always dependent on subquery. * Subquery is the query in another query which is embedded in where prolos polysido of Mil * Always subqueries should be enclosed within paranthesis (). * Order by clause sh cannot be used inside a subquery. * A subquery can have only one column in the select clause unless multiple columns are in the main query to compare with. * If a subquery 91etuens more than one now we can use operators such as in, not in, at all , any. = Any =a11Both > Any >01) max mun Lall < Any min max

```
what to display f-name, 1-name and salary for all employees who are
    earning more than Tendulkar.
          Select f-name, l-name, safary
          from employees
     where salary > (select salary
                                            greater than than salary
                              from employees
      the salid and boom a cotrese last rame - Tendulkax'); where
                                             a which to display all distalls of
   * WAG to clisplay olupt_id, e-name for all employees who work in the
      same dept in which vinod works.
   in administration dept.
   and whose salme is a salme and job-id whose job-id is similar to king
     and whose salary is greater than singh salary.
    * WAR to display employee_id for all employees whose dept-id in employees
      table is equal to dept-id in dept. table.
    * Select department_id, f-name
         from employees
e :
                                                         90
                                                              Sachen
         where dept-id = (select dept-id
1 1
                                                          90
                                                              Viriod
                            from employees
                                                              Santosb
                            where f-name = 'Vinco');
     * select dept-id, f-name, job-id
        from department employees
                                                     Olp!
        where dept-id = (select dipt-id
                                                        Mukand AD-Assit
                                                     (0
                          from dept
                           where dept indme 'administration');
     * select f-name, 1-name, job-id, salary
        from employees
        where job_id = (select-job-id
                        from employees
                                                          12000
                        cohere 1-name = 'king) and salary > (Select salary
      Ramush J ST-Clark 18500
     Marlon Samuels 1 43000
                                                     from employees
      Mousen Jetley 11 53000
                                                     where 1-name = singh');
      Fran Line Job
                    Salo
```

* select employee_id it works by sent to ment or origin of world brone from "Production from employees where dept-id IN (select dept-id from dynastments); * WAR to obtain all the details from employees table whose salary is greater than Adam's salary. I was to display all details of employee who were hired after miller and salary greater than smith's salary of smeat-3 bl. tall religion of the * WAR to display f-name, L-name and job-id whose having employee is 7521. * who to display all the details of employees who earn such amount of salary which is the smallest salary in any dept * who to display on the details of employee whose salary is within the Sange of smallest salary and 50,000.