create database Employee;

use Employee;

select \* from studies;

select avg(scost) from software where dev\_in='Pascal';

select name,floor(DATEDIFF(curdate(),dob)/365) as age from programmer;

select max(sold) from software;

select dob,name from programmer where month(dob)=1;

insert into programmer values

('Raj','2000-10-18','2022-3-12','M','Pascal','Basic',32000),

('Ram','1998-6-09','2019-7-26','M','Cobal','Java',40000),

('Sita','1999-11-21','2021-4-13','F','Clipper','C',20000),

('Hari','2000-12-21','2024-11-4','M','Python','JS',240000),

('Lakshmi','1998-12-2','2019-8-21','F','PHP','GO',29000),

('Shankar','1998-4-7','2019-11-12','M','Clipper','Cobal',19999),

('Saravana','1996-4-2','2015-2-13','M','Pascal','Basic',3200),

('Anand','1995-3-23','2020-11-21 ', 'M','Clipper','Cobol',2800),

('Jeyanth','1989-12-22','2018-3-22','M','Oracle','Java',4100),

('Praba','1998-1-31' , '2020-2-21','F','Cobol','Dbase',3000),

('Mary', '1998-8-30','2022-1-2','F', 'C','Dbase',2900),

('Prema','2000-1-24','2021-2-1', 'F','C++','Oracle', 4500),

('Dhilip', '1995-9-15','2019-8-11','M','Cobol','Dbase',2500),

('Pradeep', '1995-11-19','2020-4-21','M','Pascal','Clipper', 2800),

('Sadir', '1995-8-13','2021-4-22','M','Assembly','C', 3000),

('Remitha', '1997-1-1', '2020-12-1','F','Basic','Cobol' ,2500),

('Reshma', '2000-4-19','2021-4-20','F','C','Assembly', 3600),

('Vijaya', '1999-12-2','2020-2-21','F','Pascal','Basic',3700),

('Revathi', '1995-11-4','2018-7-19','F','Foxpro','C',3500),

('Dharshini','1987-2-23','1992-3-4','F','C','Assembly',4000),

('Seema','1968-2-12','1987-2-12','F','C','C++',2000),

('Jaya','1989-12-12','1978-3-22','F','Pascal','Basic',4000),

('Vinodh','1967-3-14','1978-3-5','M','Basic','Pascal',5000),

('Keerthi','1965-3-4','1992-3-1','F','Basic','Clipper',4000),

('Martin','1967-9-12','1990-6-18','M','Clipper','C',5000),

('Rahul','1968-12-3','1987-5-4','M','C','Cobal',4000),

('Sanjay','1994-07-10','2017-12-12','M','Java','C',2555),

('Rasin','1990-03-12','2016-06-05','M','JS','COBAL',3310),

('Senthil','1975-08-30','1999-01-08', 'M','PHP','C',2000),

('Arthi','1989-06-06' ,'2010-12-02','F','SQL','C++',3910),

('Saratha','1988-11-03','2012-07-01','F','R','PHP',2735),

('Mani','1996-04-03','2017-01-01','M','COBAL','PERL',2735),

('Krishna','1995-02-26','2013-10-23','M','C','SQL',3111);

insert into software values

('Arjun','parashutes','basic',399.95,6000,43),

('Arun','code generator', 'c', 4500.00,20000,23),

('Surya','video thinking pack','pascal',7500.00,16000,9),

('Sanjay','Banking','Cobal',230.0,1212,8),

('Mani','shares management','oracle',3000.00,12000,14),

('Mohan','inventory control','cobol',3000.00,3500,0),

('Prabhu','vaccines','c',1900.00,3400,21),

('Raj','parcel package','dbase',9000.00,20000,7),

('Ram','financial acc s/w','oracle',18000.00,85000,4),

('Praba','read me','c++',300.00,1200,84),

('Suba','Graphic editor','Pascal',750.00,5000,11),

('Sadhik','bombs away','assembly','499.95',530,114),

('Boopathi','hotel management','dbase',12000.00,35000,4),

('Abi','pc utilities','c',725.00,5000,51),

('Siva','tsr help package','assembly',2500.00,900,6),

('Rohini','hospital management','pascal',1100.00,75000,2),

('Saya','quiz master','basic',3200.00,2100,15),

('Sathya','disk editor','c',900.00,700,6),

('Reshma','shopping','Java',500.0,400,3),

('Sita','vedio game','c',400.9,220,2),

('Rajan','Library','cobal',799.0,900,4),

('Karthi','serial link utility','java',800.00,7500,10),

('Vijay','dead lee','pascal',99.95,4500,73),

('Sekar','Note++','c',800.0,200,6),

('Moorthi','Music','Java',255.0,500,9),

('Sanjay','MJS System','COBAL',331,200,4),

('Shanthini','Play game','C',200.9,302,8),

('Shanmathi','Fintech','C++',391,80,4),

('Sakthi','Bus booking','PHP',273.85,66,4),

('Maayan','E-commerce','COBAL',273.5,789,3);

insert into studies values

('Anu','Apple','Dsc',4000),

('Hari','SDBT','Hdcp',3200),

('Dharshini','BITS','Pgdca',29000),

('Pranesh','SDBT','SSIL',2400),

('Abishek','SSIL','MS',2000),

('Rohith','BITS','Dca',1999),

('Selva', 'SDBT', 'Pgdca', 8000),

('Dihesh', 'SSIL' ,'Dca', 3500),

('Dhanush', 'SSIL', 'Dca', 5000),

('Kishore', 'BITS', 'Dca', 20000),

('Santhosh', 'SBTECH', 'Dcp',3500),

('Sathya','SDBT','Pgdca', 4500),

('Manoj','SBTECH','Dap',6200),

('Karthik', 'SBTECH', 'Dcap', 5200),

('Kavin','APPLE','Hdcp',14000),

('Ganesh','SDBT','Pgdca',4500),

('Madhavan','SSS','DcP',11000),

('Srudhiksha','MICROSOFT','Dcs',6000),

('Rohini','SDBT','Dap',5000),

('Naveen','SBTECH','Dca',48000),

('Prithiv','SABHARI','C',23000),

('Latha','PRAGATHI','Dca',2800),

('Sakthi','SSIL','Dca',2000),

('Vignesh','SBTECH','Pgdca',4000),

('Dharmu','MICROSOFT','Dca',2700),

('Anand','MICROSOFT','Hdpc',11000),

('Arul','SSS','Dcs',2000),

('Sanjay','SDPT','Dca',4100),

('Jaisen','MPHP','Dsp',2000),

('Gokul','SSIL','Dca',910),

('Vinod','PRAGATHI','PHP',545),

('Yuvaraj','SSIL','Hdpc',742),

('Vinu','PRAGATHI','Dap',718);

///////////////////////////////////////////////////////////////////////////

use employee;

select \* from programmer;

select \* from studies;

-- ------------------------ [ QUERIES 1 ]-------------------------------------3,25,27

-- 1--10----

SELECT AVG (SCOST) FROM SOFTWARE WHERE DEV\_IN LIKE 'PASCAL';

select name,floor(DATEDIFF(curdate(),dob)/365) as age from programmer;

select name from studies where course='dap';

select max(sold) from software;

select dob,name from programmer where month(dob)=1;

select min(ccost) from Studies;

select count(course) from Studies where course='Pgdca';

select sum(sold\*scost) from software where dev\_in='c';

select \* from software where name='Ramesh';

select count(name) as noprogrammers from studies where splace='sabhari';

-- 11---20-----

select \* from software where (sold\*scost)>20000;

select name,round(dcost/scost) from software where scost\*sold;

select max(scost) from software where dev\_in='basic';

select \*from software where (sold\*scost)>dcost;

select count(title) as total from software where dev\_in='dbase';

select count(name) as splace\_from\_pragathi from studies where splace='Pragathi';

select count(name) as no\_of\_programmers from studies where ccost>=5000 and ccost<=10000;

select round(avg (ccost)) as averagecost from studies;

select \* from programmer where prof1='c' or prof2='c';

select count(name) as programmers from programmer where prof1 in ('cobol' ,'pascal' ) or prof2 in ('cobol' ,'pascal' );

-- 21---30------

select count(name) as programmers from programmer where prof1 not in ('c','pascal') and prof2 not in ('c','pascal');

select max(floor(DATEDIFF(CURDATE(),dob)/365)) as oldest\_male from programmer where sex = 'M';

select floor(avg ((datediff(curdate(),dob)/365))) as average\_female from programmer where sex = 'F';

select name, floor (datediff(curdate(),doj)/365) as experience from programmer order by name desc;

select name as birthday\_current\_month from programmer where month(dob)=month(current\_date());

select count(name) female\_prog from programmer where sex='f';

select distinct prof1 languages from programmer where sex='m' union select distinct prof2 from programmer where sex='m';

select avg (salary) as avgsal from programmer;

select name from programmer where salary between 2000 and 4000;

select \* from programmer where prof1 not in ('clipper','cobol','pascal') and prof2 not in ('clipper','cobol','pascal');

-- --31---40---

select count(name) as Female\_above\_24 from programmer where sex='f' and (prof1='c' or prof2='c') and (datediff(curdate(),dob)/365) > 24;

select name from programmer where week(dob) = week(curdate());

select \* from programmer where (datediff(curdate(),doj)/365)<1;

select name from programmer where floor(datediff(curdate(),doj)/365)=2;

select (dcost-(scost\*sold)) as amount\_to\_be\_recovered, title from software where (scost\*sold)<dcost;

select title software from software where sold=0;

select title, scost as softcost from software where name='mary';

select distinct splace from Studies;

select distinct course from studies;

select name from programmer where name like '%a%a%';

-- 41----50----

select name from programmer where length(name)=5;

select name from programmer where floor(datediff(curdate(),doj)/365)<2 and sex='f' and (prof1='Cobol' or prof2='Cobol');

select min(length(name)) as smallest\_name from programmer;

select avg(dcost) avgerage\_decost from software where dev\_in='cobol';

select name, sex ,dob,doj from programmer;

select name from programmer where last\_day(dob) = dob;

select salary from programmer where sex='m' and (prof1!='cobol' or prof2!='cobol');

select title, scost, dcost, dcost -scost diff from software order by 4 desc;

select name from programmer where month(dob)=month(doj);

select title from software where title like '% %';

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

-- ---- [ QUERIES-2] --------

-- 1---10----

select dev\_in language,count(title) no\_of\_pack from software group by dev\_in;

select name,count(title) no\_of\_pack from software group by name;

select sex,count(name) from programmer group by sex;

select dev\_in,max(scost),max(sold) from software group by dev\_in;

select year(dob) as year,count(name) from programmer group by year(dob);

select year(doj) as year,count(name) from programmer group by year(doj);

select monthname(dob) as Month\_People\_Born ,count(name) from programmer group by month(dob);

select monthname(doj) as Month\_Of\_Join,count(name) from programmer group by month(doj);

select prof1, count(prof1) from programmer group by prof1;

select prof2, count(prof2) from programmer group by prof2;

-- 11---20

select salary,count(name) from programmer group by salary;

select splace,count(name) from studies group by splace;

select course ,count(name) from studies group by course;

select dev\_in lang,sum(dcost) total\_cost from software group by dev\_in;

select dev\_in ,sum(scost) from software group by dev\_in;

select name,sum(dcost) as total\_cost from software group by name;

select name, sum(scost\*sold) from software group by name;

select name,count(title) as total\_pack from software group by name;

select dev\_in, sum(scost) from software group by dev\_in;

select name,min(dcost),max(dcost) from software group by name;

-- 21--30

select dev\_in,avg(dcost),avg(scost),avg(scost) from software group by dev\_in;

select splace,count(course), round(avg(ccost),2) from studies group by splace;

select splace,count(name) from studies group by splace;

select name,sex from programmer order by sex;

select name,title from software order by name;

select count(title),dev\_in from software group by dev\_in;

select count(title),dev\_in from software where dcost<1000 group by dev\_in;

select dev\_in,avg(dcost - scost) from software group by dev\_in;

select sum(scost), sum(dcost), sum(dcost-(sold\*scost)) from software group by name having sum(dcost)>sum(sold\*scost);

select max(salary), min(salary), round(avg(salary),2) from programmer where salary > 2000;

//////////////////////////////////////////////////////////////////////////////////////

-- ---------------------[ QUERIES-3 ]-----------------------------

-- 1-----10---

select \* from programmer where salary=(select max(salary) from programmer where prof1='c' or prof2='c');

select \* from programmer where salary=(select max(salary) from programmer where (prof1='cobol' or prof2='cobol')) and sex='f';

select distinct name, salary, prof1 from programmer where (salary,prof1) in (select max(salary),prof1 from programmer group by prof1);

select floor(datediff(doj,curdate())/365) exp,name from programmer where floor(datediff(curdate(),doj)/365) = (select min(floor(datediff(curdate(),doj)/365)) from programmer);

select floor(datediff(doj,curdate())/365) exp,name,prof1,prof2 from programmer where floor(datediff(doj,curdate())/365) = (select max(floor(datediff(doj,curdate())/365)) from programmer);

select prof1 from programmer group by prof1 having prof1 not in (select prof2 from programmer) and count(prof1)=1 union select prof2 from programmer group by prof2 having prof2 not in (select prof1 from programmer) and count(prof2)=1;

select floor(datediff(curdate(),dob)/365) age, name, prof1, prof2 from programmer where floor(datediff(curdate(),dob)/365) = (select min(floor(datediff(date-dob)/365)) from programmer where prof1 like 'dbase' or prof2 like 'dbase');

select max(splace) from studies;

select name from studies where splace='Ssil';

select \* from programmer where sex = 'f' and salary >3000 and (prof1 not in('c','c++','oracle','dbase') or prof2 not in('c','c++','oracle','dbase'));

-- ----------11----20--------

select course from studies where ccost = (select MAX(ccost) from studies);

select course from studies group by course having count(course);

select splace,course from studies where ccost < (select avg(ccost) from studies);

select splace from studies where ccost = (select max(ccost) from studies);

select course from studies ;

select splace from studies where course in (select course from studies group by course having count(name) < (select avg(count(name)) from studies group by course));

select course from studies where ccost < (select avg(ccost)+1000 from studies) and ccost > (select avg(ccost)-1000 from studies);

select title,dcost from software where dcost = (select max(dcost) from software);

select title,scost from software where scost = (select min(scost) from software);

select name,sold from software where sold = (select min(sold) from software);

-- ----------21-----30---------

select dev\_in,scost from software where scost = (select max(scost) from software);

select sold,title from software where title = (select title from software where (dcost-scost)=(select min(dcost-scost) from software));

select title from software where dcost = (select max(dcost) from software where dev\_in like 'pascal');

select dev\_in from software group by dev\_in having max(dev\_in) = (select max(dev\_in) from software);

select name from software group by name having max(name) = (select max(name) from software);

select name,dcost from software where dcost = (select max(dcost) from software);

select title from software where sold < (select avg(sold) from software);

select name from programmer where sex = 'f' and salary > (select(max(salary)) from programmer where sex = 'm');

select prof1 from programmer group by prof1 having prof1 = (select max(prof1) from programmer);

select name from software where sold\*scost > 2\*dcost;

-- --------------31---------38----------

select name,title from software where dcost in (select min(dcost) from software group by dev\_in);

select name from programmer where dob=(select (max(dob)) from programmer where year(dob) ='1965');

select name, dev\_in from software where sold in (select max(sold) from software group by name) union select name, dev\_in from software where sold in (select min(sold) from software group by name);

select name from programmer where doj=(select (min(doj)) from programmer where year(doj)=1992);

select distinct year(dob) from programmer where year(doj) = (select min(year(doj)) from programmer);

select distinct month(doj) from programmer where month(doj) = (select max(month(doj)) from programmer);

select max(prof1)as highest\_no\_of\_proficient\_language from programmer;

select name from programmer where sex = 'm' and salary < (select(avg(salary))from programmer where sex = 'f');

////////////////////////////////////////////////////////////////////////////////////////////////////////

select name, salary from programmer where salary = any(select salary from programmer p group by salary having salary=p.salary and count(\*)>1);

select software.\* from software,programmer where programmer.name=software.name and salary>3000 and sex='m';

select s.\* from programmer p,software s where p.name=s.name and sex='f' and dev\_in='pascal';

select \* from programmer where year(doj)<=1990;

select s.\* from software s,studies st,programmer p where s.name=st.name and p.name=s.name and p.sex='f' and st.splace='pragathi';

Select studies.splace, count(software.dev\_in), count(software.sold), sum(software.sold\*software.scost) from software,studies where software.name=studies.name group by studies.splace;

select software.\* from programmer,software,studies where programmer.name=software.name and software.name=studies.name and programmer.name=studies.name and sex='m' and dev\_in='dbase' and splace= (select splace from studies group by splace having count(splace) =(select max(count(splace))from studies group by splace));

select s.\* from programmer p,software s where s.name=p.name and sex='m' and year(dob)<1964 and sex='f' and year(dob)>75;

select distinct x.\* from software x, programmer y where y.prof1 <> x.dev\_in and x.name = y.name;

select s.\* from programmer p,software s where s.name=p.name and (dev\_in <> prof1 and dev\_in <> prof2);

-- -------------------------11-----20-----------------

select s.\* from programmer p,software s,studies st where p.name=s.name and s.name=st.name and sex='m' and splace='Sabhari';

select name from programmer where name not in(select name from software);

select sum(scost) from software s,studies st where s.name=st.name and splace='apple';

select a.name,a.doj from programmer a,programmer b where a.doj=b.doj and a.name <> b.name;

select name from programmer where prof2 = any(select prof2 from programmer group by prof2 having count(\*) >1);

select studies.splace,sum(software.sold\*software.scost) from software,studies where studies.name=software.name group by studies.splace;

select splace from software st,studies s where s.name=st.name group by splace,dcost having max(dcost)=(select max(dcost) from software);

select prof1 from programmer where prof1 not in(select dev\_in from software) union select prof2 from programmer where prof2 not in(select dev\_in from software);

select p1.salary,s2.course from programmer p1,software s1,studies s2 where p1.name=s1.name and s1.name=s2.name and scost=(select max(scost) from software);

select p.name,ceil(ccost/salary) from programmer p,studies s where s.name=p.name;

select s.title from software s, programmer p where (datediff(curdate(),p.doj)/365) > 3 and p.name=s.name;

select avg(salary) from programmer p,software s where p .name=s.name and sold\*scost>50000;

select count(s.name) from software s,studies st where s.name=st.name group by s.name,ccost having min(ccost)=(select min(ccost) from studies);

select count(\*) from programmer p,software s where s .name=p.name group by dev\_in having min(dcost)=(select min(dcost) from software);

select count(dev\_in) from programmer p,software s where s.name=p.name and sex='f' and salary>(select max(salary) from programmer p,software s where s.name=p.name and sex='m');

select count(\*) from software s,programmer p where p.name=s.name group by doj having max(doj)=(select max(doj) from studies st,programmer p, software s where p.name=s.name and st.name=p.name and (splace='bdps'));

select name,splace from studies where name not in(select name from software);

select count(\*),sum(scost\*sold-dcost) "PROFIT" from software where dev\_in in (select prof1 from programmer) group by dev\_in;

select s.name,count(dev\_in) from programmer p1,software s where p1.name=s.name group by s.name;

select programmer.\* from programmer,software,studies where splace='SSIL' and programmer.name=software.name and programmer.name=studies.name and studies.splace='ssil';