select PLAYERNO, NAME from PLAYERS where YEAR\_OF\_BIRTH > 1960

select PLAYERNO, NAME, TOWN from PLAYERS where SEX = 'F' AND TOWN != 'Stratford'

select PLAYERNO from PLAYERS where YEAR\_JOINED between 1970 and 1980

select PLAYERNO, NAME, YEAR\_OF\_BIRTH from PLAYERS where (*MOD*(YEAR\_OF\_BIRTH, 4) = 0) AND  
 (*MOD*(YEAR\_OF\_BIRTH, 100) != 0)  
 OR  
 (*MOD*(YEAR\_OF\_BIRTH, 400) = 0);

select AMOUNT from PENALTIES where AMOUNT between 50 and 100

select PLAYERNO, NAME from PLAYERS where TOWN != 'Stratford' and TOWN != 'Douglas'

select PLAYERNO, NAME from PLAYERS where NAME like '%is%'

select NAME from PLAYERS where LEAGUENO IS NULL

select ENAME from EMP where COMM > SAL

select ENAME from EMP where DEPTNO = 30 and SAL >= 1500

select ENAME from EMP where EMP.JOB = 'MANAGER' and DEPTNO != 30

select ENAME from EMP where DEPTNO = 10 and EMP.JOB != 'MANAGER' and EMP.JOB != 'CLERK'

select ENAME from EMP where SAL between 1200 and 1300

select ENAME from EMP where ENAME LIKE 'ALL%' and *length*(ENAME) = 5

select ENAME, SAL + *coalesce*(COMM,0) as total\_sal from EMP

select ENAME from EMP where COMM > (SAL \* 0.25)

select *round*(*avg*(SAL)) from EMP

select *count*(\*) as numberofemps from EMP where COMM is not null and COMM != 0

select *count*(distinct JOB) from EMP where DEPTNO = 30

select *count*(EMPNO) from EMP where DEPTNO = 30

select ENAME from EMP where HIREDATE between *to\_date*('1981-01-04','YYYY-MM-DD') and *to\_date*('1981-04-15','YYYY-MM-DD')

select TEAMNO from TEAMS where PLAYERNO != 27

select PLAYERS.PLAYERNO, NAME, INITIALS, WON from PLAYERS join PGERSTL.MATCHES on MATCHES.PLAYERNO = PLAYERS.PLAYERNO where WON > 0

select distinct NAME from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where PLAYERS.PLAYERNO = PENALTIES.PLAYERNO

select distinct NAME from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where AMOUNT > 50

select distinct NAME from PLAYERS where YEAR\_OF\_BIRTH = (Select YEAR\_OF\_BIRTH from PLAYERS where NAME = 'Parmenter' and INITIALS = 'R')

select NAME from PLAYERS where TOWN = 'Stratford' order by YEAR\_OF\_BIRTH fetch first row only

select dept.DEPTNO, DNAME from DEPT left join emp on dept.DEPTNO = EMP.DEPTNO where emp.DEPTNO is null

select ENAME from EMP where EMP.JOB = (select job from EMP where ENAME = 'JONES')

select ENAME from EMP where DEPTNO != 30 and SAL > (select *avg*(SAL) from EMP where DEPTNO = 30)

select ENAME from EMP where DEPTNO != 30 and SAL > any (select SAL from EMP where DEPTNO = 30)

select ENAME from EMP where DEPTNO = 10 and EMP.JOB not in (select EMP.JOB from EMP where DEPTNO = 30)

select EMPNO, ENAME, JOB, SAL from EMP order by SAL desc fetch first row only

select YEAR\_JOINED, *count*(\*) as JoinedPerYear from PLAYERS group by YEAR\_JOINED order by YEAR\_JOINED

select *avg*(AMOUNT) from PENALTIES join PLAYERS on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO

select *count*(AMOUNT) from PENALTIES where PEN\_DATE < *to\_date*('1983-01-01', 'YYYY-MM-DD')

select distinct TOWN from PLAYERS group by TOWN having *count*(\*) > 4

select PLAYERNO from PENALTIES group by PLAYERNO having *sum*(AMOUNT) > 150

select NAME, INITIALS from PLAYERS where PLAYERNO in (select PLAYERNO from PENALTIES group by PLAYERNO having *count*(\*) > 1)

select *extract*(Year from PEN\_DATE) as penalty\_year from PENALTIES group by *extract*(Year from PEN\_DATE) having *count*(\*) > 1

select NAME, INITIALS from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where AMOUNT > 40 group by NAME, INITIALS having *count*(PENALTIES.PLAYERNO) >= 2

select NAME, INITIALS from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where AMOUNT = (Select *max*(AMOUNT) from PENALTIES)

select *extract*(year from PEN\_DATE) as penalty\_year, *count*(\*) as total\_penalties from PENALTIES group by *extract*(year from PEN\_DATE) order by total\_penalties desc fetch first row only

select PLAYERS.PLAYERNO, TEAMNO, WON, LOST from PLAYERS join Matches on PLAYERS.PLAYERNO = MATCHES.PLAYERNO order by MATCHNO desc

select ENAME, SAL from EMP where DEPTNO = 30 order by SAL desc

select ENAME, JOB, SAL from EMP order by JOB, SAL desc

select ENAME, *extract*(year from HIREDATE) from EMP order by *extract*(year from HIREDATE) desc, ENAME asc

select ENAME, SAL, COMM, case when SAL > 0 then COMM / SAL else Null end as comm\_sal\_ratio from EMP where EMP.JOB = 'SALESMAN' order by comm\_sal\_ratio

select DEPTNO, *round*(*avg*(SAL),2) as average\_sal from EMP group by DEPTNO order by DEPTNO

select EMP.JOB, *round*(*avg*(SAL \* 14)) as annual\_sal from EMP where EMP.JOB in (select EMP.JOB from EMP group by EMP.JOB having *count*(\*) > 2) group by EMP.JOB

select distinct DEPTNO from EMP where DEPTNO in (select DEPTNO from EMP group by DEPTNO having *count*(\*) > 2)

select *round*(*avg*(SAL)), *round*(*avg*(COMM)) from EMP where DEPTNO = 30

select NAME,INITIALS, *Sum*(WON) as matcheswon from PLAYERS join PGERSTL.MATCHES on players.PLAYERNO = matches.PLAYERNO group by NAME, INITIALS order by matcheswon desc

select NAME, PEN\_DATE, AMOUNT from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO order by AMOUNT desc

select TEAMNO, NAME from PLAYERS join TEAMS on PLAYERS.PLAYERNO = TEAMS.PLAYERNO

select NAME, *sum*(WON), *sum*(LOST) from MATCHES join PLAYERS on PLAYERS.PLAYERNO = MATCHES.PLAYERNO group by NAME

select PLAYERS.PLAYERNO, NAME, *coalesce*(AMOUNT, 0) from PLAYERS join MATCHES on MATCHES.PLAYERNO = PLAYERS.PLAYERNO left join PENALTIES on PENALTIES.PLAYERNO = PLAYERS.PLAYERNO order by AMOUNT asc

select LOC from DEPT join EMP on DEPT.DEPTNO = EMP.DEPTNO where ENAME = 'ALLEN'

select ENAME from EMP where DEPTNO = 10 and SAL > (select SAL from EMP where EMP.JOB = 'MANAGER' and DEPTNO = 10);  
select ENAME from EMP where DEPTNO = 20 and SAL > (select SAL from EMP where EMP.JOB = 'MANAGER' and DEPTNO = 20);  
select ENAME from EMP where DEPTNO = 30 and SAL > (select SAL from EMP where EMP.JOB = 'MANAGER' and DEPTNO = 30);

select *extract*(year from HIREDATE) as hire\_year, *count*(\*) as hire\_count from EMP group by *extract*(year from HIREDATE) order by hire\_year

select distinct PLAYERNO from PGERSTL.MATCHES where TEAMNO = 1 and PLAYERNO in (Select PLAYERNO from PGERSTL.MATCHES where TEAMNO = 2)

select distinct NAME, INITIALS from PLAYERS where not *exists*(Select 1 from PENALTIES where PLAYERS.PLAYERNO = PENALTIES.PLAYERNO and PEN\_DATE between *to\_date*('1980-01-01', 'YYYY-MM-DD') and *to\_date*('1980-12-31', 'YYYY-MM-DD'))

select NAME, INITIALS from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where AMOUNT > 80 group by NAME, INITIALS having *count*(PENALTIES.PLAYERNO) >= 1

select NAME, INITIALS from PLAYERS join PENALTIES on PLAYERS.PLAYERNO = PENALTIES.PLAYERNO where AMOUNT > 80

select ENAME from EMP where DEPTNO = 30 and SAL > (select *avg*(SAL) from EMP where DEPTNO = 30);  
select ENAME from EMP where DEPTNO = 20 and SAL > (select *avg*(SAL) from EMP where DEPTNO = 20);  
select ENAME from EMP where DEPTNO = 10 and SAL > (select *avg*(SAL) from EMP where DEPTNO = 10);

select DNAME from DEPT join EMP on DEPT.DEPTNO = EMP.DEPTNO group by DNAME having *count*(ENAME) > 0

select distinct DNAME from DEPT join EMP on DEPT.DEPTNO = EMP.DEPTNO where SAL > 1000

WITH dept\_with\_sal as (  
 select DEPTNO from EMP group by DEPTNO having *min*(SAL) >= 1000  
) select DEPT.DEPTNO, DNAME from DEPT join dept\_with\_sal on DEPT.DEPTNO = dept\_with\_sal.DEPTNO order by DEPTNO

select sub from PARTS start with (SUPER = 'P3') connect by (SUPER = SUB);  
select sub from PARTS start with (SUPER = 'P9') connect by (SUPER = SUB);

SELECT SUB, LEVEL AS hierarchy\_level FROM PARTS START WITH SUB = 'P12' CONNECT BY PRIOR SUPER = SUB;

select *COUNT*(\*) as parts\_count from PARTS where PRICE > 20 start with SUB = 'P1' connect by Prior SUB = SUPER

select ENAME from EMP start with MGR = 7566 connect by EMPNO = MGR

select ENAME from EMP start with MGR = 7902 connect by prior MGR = EMPNO

select LEVEL as hierarchy\_level, *ROUND*(*AVG*(SAL), 2) as avg\_salary from EMP start with MGR is null connect by prior EMPNO = MGR GROUP BY LEVEL order by hierarchy\_level