



# Soluzione esercitazione 05

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Sistemi Informativi L-A

Home Page del corso:

<http://www-db.deis.unibo.it/courses/SIL-A/>

Versione elettronica: [SolEse05.pdf](#)

# Query database "SAMPLE"

```
1. WITH TEMP(PNO) AS(
    (SELECT P.PROJNO AS PNO
     FROM PROJECT P
     WHERE P.PROJNO = 'AD3100')
  UNION ALL
  (SELECT P.PROJNO AS PNO
   FROM PROJECT P,TEMP T
   WHERE T.PNO = P.MAJPROJ)
)
SELECT E.WORKDEPT,SUM(E.SALARY)
FROM EMP_ACT EA,EMPLOYEE E, TEMP T
WHERE EA.PROJNO = T.PNO
AND EA.EMPNO = E.EMPNO
AND E.BIRTHDATE > '1946-01-01'
AND E.SEX = 'F'
GROUP BY E.WORKDEPT
```

# Query database "SAMPLE"

```
2. SELECT D.DEPTNO
   FROM DEPARTMENT D LEFT OUTER JOIN EMPLOYEE E ON
                                     (D.MGRNO=E.EMPNO)
   WHERE E.SALARY IS NULL
```

```
3. WITH TEMP(DEP,NUM) AS (
   SELECT E.WORKDEPT,COUNT(*)
   FROM EMPLOYEE E
   GROUP BY E.WORKDEPT)
   SELECT *
   FROM TEMP
   WHERE NUM = (SELECT MAX(NUM)
                FROM TEMP)
```

# Query database "SAMPLE"

```
4. WITH INFD(DNO) AS (  
  (SELECT D.DEPTNO AS DNO  
   FROM DB2ADMIN.DEPARTMENT D  
   WHERE D.DEPTNO = 'D01')  
 UNION ALL  
  (SELECT D.DEPTNO AS DNO  
   FROM DB2ADMIN.DEPARTMENT D, INFD I  
   WHERE I.DNO = D.ADMRDEPT))  
  
SELECT P.DEPTNO, P.PROJNAME  
FROM DB2ADMIN.PROJECT P  
WHERE P.DEPTNO IN (SELECT DNO FROM INFD)  
AND P.PRENDATE >= ALL (SELECT P1.PRENDATE  
                        FROM DB2ADMIN.PROJECT P1  
                        WHERE P1.DEPTNO = P.DEPTNO)
```