Solution of SQL exercises on DB faculty

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1.
  SELECT name
  FROM Teachers JOIN Departments ON nr_t=manager
  WHERE name_dep="Chemistry";
2.
  SELECT name, age
  FROM Teachers NATURAL JOIN Works
       NATURAL JOIN Departments
  WHERE name_dep="Physics";
3.
  SELECT nr_proj, budget
  FROM Teachers JOIN Projects ON nr_t=proj_manager
  WHERE name="Carlos Silva";
4.
  SELECT nr_proj
  FROM Teachers NATURAL JOIN Works
       NATURAL JOIN Departments
       JOIN Projects ON nr_t=proj_manager
  WHERE name_dep="Math";
```

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5.
  SELECT Students.age
  FROM Students NATURAL JOIN Stu_Projs
       NATURAL JOIN Projects
       JOIN Teachers ON Teachers.nr_t=proj_manager
  WHERE Teachers.name="Ana Matos";
6.
  SELECT S1.name
  FROM Students S1 NATURAL JOIN Departments
       JOIN Advises ON S1.nr_s=adviser
       JOIN Students S2 ON S2.nr_s=advised
  WHERE name_dep="Economy" AND S2.course="Management";
7.
  SELECT institution
  FROM Projects NATURAL JOIN Participates
       NATURAL JOIN Teachers
  WHERE area="Econometrics";
8.
  SELECT name_dep
  FROM Departments NATURAL JOIN Works
       NATURAL JOIN Teachers
       NATURAL JOIN Participates
       NATURAL JOIN Projects
       JOIN Teachers T ON proj_manager=T.nr_t
  WHERE T.name="Joao Costa";
```

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9.
   SELECT DISTINCT nr_t,Teachers.name
   FROM Teachers NATURAL JOIN Stu_Projs
   WHERE nr_s IN (
        SELECT nr_s
        FROM Students NATURAL JOIN Departments
        WHERE name_dep="Math"
   );
10.
   SELECT nr_s, name
   FROM Students NATURAL JOIN Stu_Projs
        NATURAL JOIN Teachers
        NATURAL JOIN Works
        JOIN Departments ON Works.cod_dept=Departments.cod_dept
   WHERE name_dep="chemistry"
        AND Students.cod_dept=(
              SELECT cod_dept FROM Departments
```

WHERE name_dep="Physics");