# All playlists together with all titles on them

```
select pl.name as playlist, t.name as title
from playlist pl
      join title t on t.plid=pl.plid;
```

| * | PLAYLIST | TITLE |
|---|----------|-------|
| 1 | chillout | Sit Back Down |
| 2 | chillout | I Will Fade |
| 3 | chillout | Soul for Me |
| 4 | chillout | Butterfly Caught |
| 5 | danceout | Sad But True |
| 6 | danceout | Are We Here? |
| 7 | danceout | Science Friction |
| 8 | hard n heavy | The World Is Our |
| 9 | hard n heavy | Remedies |
| 10 | epic | Idioteque |
| 11 | epic | Out of Sight |
| 12 | epic | Aotearoa |
| 13 | epic | Gorecki |

# For each playlist: which genres are on it

```
select distinct
  pl.name as playlist, g.description as genre
from playlist pl
join title t on t.plid=pl.plid
join genre g on g.gid=t.gid
order by pl.name;
```

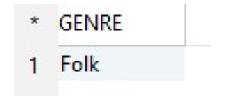| * | PLAYLIST | GENRE |
|---|----------|-------|
| 1 | chillout | Pop |
| 2 | chillout | Trip Hop |
| 3 | danceout | Trip Hop |
| 4 | epic | Trip Hop |
| 5 | epic | Rock |
| 6 | hard n heavy | Rock |

# A: Orgunits related to projects

# Name of all orgunits that are related to projects, i.e. where at least one employee of that orgunit is involved in a project

```
select distinct p.title, ou.name
from project p
     join empproj ep on ep.pid=p.pid
     join employee e on e.eid=ep.eid
     join orgunit ou on ou.ouid=e.ouid
order by p.title;
```

| * | TITLE | NAME |
|---|---|---|
| 1 | CRM | HR |
| 2 | CRM | Administration |
| 3 | Plant Restructurierung | Warehouse |
| 4 | Plant Restructurierung | Production |
| 5 | Strategy | Production |
| 6 | Strategy | Administration |
| 7 | Strategy | Company |

# A: Finding unused Genre

## Description of all genres that are not related to any title

```
select g.description as genre
from title t
    right join genre g on g.gid=t.gid
where t.tid is null;
```

| | GENRE |
|---|---|
| * | |
| 1 | Folk |

# A: Project costs per employee

Cost:
- 40 hours per week
- Project lasts exactly one year
- Only labor costs, no material costs
- Only salary is considered

select title as project, lastname as employee, noofhoursperweek/40*salary as cost
from employee e
     join empproj ep on ep.eid=e.eid
     join project p on p.pid=ep.pid
order by project, employee;

| * | PROJECT | EMPLOYEE | COST |
|---|---------|----------|------|
| 1 | CRM | Blaschke | 18600 |
| 2 | CRM | Durmaz | 12000 |
| 3 | Plant Restructurierung | Oezdem | 3300 |
| 4 | Plant Restructurierung | Okeke | 6400 |
| 5 | Plant Restructurierung | Popov | 3400 |
| 6 | Plant Restructurierung | Umarani | 7100 |
| 7 | Strategy | Durmaz | 12000 |
| 8 | Strategy | Patil | 18000 |
| 9 | Strategy | Umarani | 14200 |

# A: Cost per project

Projects and overall cost

Cost:
- 40 hours per week
- Project lasts exactly one year
- Only labor costs, no material costs
- Only salary is considered

| ProjectTitel | Cost |
|---|---|

```
select p.title as projecttitle, sum(ep.noofhours/40*e.salary) as cost
from project p
    join empproj ep on p.pid=ep.pid
        join employee e on e.eid=ep.eid
group by p.title;
```

| * | PROJECTTITLE | COST |
|---|---|---|
| 1 | Accounting | 45000 |
| 2 | CRM | 25000 |
| 3 | Plant Restructuring | 70000 |

# A: Proj that overrun budget

## Projects whose cost overrun budget

Cost:
- 40 hours per week
- Project lasts exactly one year
- Only labor costs, no material costs
- Only salary is considered

| ProjectTitel | Cost | Budget |
|---|---|---|

```
select p.title as projecttitle, sum(ep.noofhours/40*e.salary) as cost,
budget
from project p
    join empproj ep on p.pid=ep.pid
        join employee e on e.eid=ep.eid
group by p.title, budget
having sum(ep.noofhours/40*e.salary) > budget;
```

| * | PROJECTTITLE | COST | BUDGET |
|---|---|---|---|
| 1 | CRM | 25000 | 10000 |

# A: Titles longer than Average

Name of all titles that are longer than the average duration of all titles

```
select name, durationinsec
from title
where durationinsec > (
  select avg(durationinsec) from title
);
```

| * | NAME | DURATIONINSEC |
|---|------|---------------|
| 1 | Sit Back Down | 396 |
| 2 | Gorecki | 390 |
| 3 | Butterfly Caught | 455 |
| 4 | Sad But True | 469 |
| 5 | Are We Here? | 934 |
| 6 | The World Is Our | 432 |

# Difference in duration of each title wrt. the average duration of all titles

```
select
name,
durationinsec,
  (select avg(durationinsec) from title) as average,
  durationinsec -  (select avg(durationinsec) from title) as diff
from title;
```

| * | NAME | DURATIONINSEC | AVERAGE | DIFF |
|---|------|---------------|---------|------|
| 1 | Sit Back Down | 396 | 384.6923076923076923076923076923076923308 | 11.30769230769230769230769230769230769230769692 |
| 2 | I Will Fade | 189 | 384.6923076923076923076923076923076923308 | -195.6923076923076923076923076923076923308 |
| 3 | Out of Sight | 236 | 384.6923076923076923076923076923076923308 | -148.6923076923076923076923076923076923308 |
| 4 | Gorecki | 390 | 384.6923076923076923076923076923076923308 | 5.30769230769230769230769230769230769692 |
| 5 | Butterfly Caught | 455 | 384.6923076923076923076923076923076923308 | 70.30769230769230769230769230769230769692 |
| 6 | Aotearoa | 266 | 384.6923076923076923076923076923076923308 | -118.6923076923076923076923076923076923308 |
| 7 | Sad But True | 469 | 384.6923076923076923076923076923076923308 | 84.30769230769230769230769230769230769692 |
| 8 | Science Friction | 304 | 384.6923076923076923076923076923076923308 | -80.6923076923076923076923076923076923308 |
| 9 | Are We Here? | 934 | 384.6923076923076923076923076923076923308 | 549.30769230769230769230769230769230769692 |
| 10 | Soul for Me | 243 | 384.6923076923076923076923076923076923308 | -141.6923076923076923076923076923076923308 |
| 11 | Idioteque | 309 | 384.6923076923076923076923076923076923308 | -75.6923076923076923076923076923076923308 |
| 12 | The World Is Our | 432 | 384.6923076923076923076923076923076923308 | 47.30769230769230769230769230769230769692 |
| 13 | Remedies | 378 | 384.6923076923076923076923076923076923308 | -6.6923076923076923076923076923076923308 |

# A: Titles and Difference in duration

All titles and difference in duration wrt. average of playlist
they belong to, order by plid

```
select vpl.plid, name as title, avg_pl, durationinsec, durationinsec-avg_pl as diff
from title t
    join
        (select plid, avg(durationinsec) as avg_pl
         from title
         group by plid) vpl
      on t.plid=vpl.plid
order by t.plid;
```

| * | PLID | TITLE | AVG_PL | DURATIONINSEC | DIFF |
|---|---|---|---|---|---|
| 1 | 1 | Sit Back Down | 320.75 | 396 | 75.25 |
| 2 | 1 | I Will Fade | 320.75 | 189 | -131.75 |
| 3 | 1 | Butterfly Caught | 320.75 | 455 | 134.25 |
| 4 | 1 | Soul for Me | 320.75 | 243 | -77.75 |
| 5 | 2 | Sad But True | 569 | 469 | -100 |
| 6 | 2 | Science Friction | 569 | 304 | -265 |
| 7 | 2 | Are We Here? | 569 | 934 | 365 |
| 8 | 3 | The World Is Our | 405 | 432 | 27 |
| 9 | 3 | Remedies | 405 | 378 | -27 |
| 10 | 4 | Out of Sight | 300.25 | 236 | -64.25 |
| 11 | 4 | Gorecki | 300.25 | 390 | 89.75 |
| 12 | 4 | Aotearoa | 300.25 | 266 | -34.25 |
| 13 | 4 | Idioteque | 300.25 | 309 | 8.75 |