

SQL

1. We have a table **Calculator** with columns:

```
(  
  Id number,  
  PId number,  
  Ca_Vid_Id number,  
  CA_ACTIVE char(1),  -- Active - Y, Not Active - N  
  Name varchar2(500),  
  Value varchar2(500)  
)
```

Task: Select all active calculators with **Ca_Vid_Id** = 1;

```
SELECT *  
FROM Calculator  
WHERE CA_ACTIVE = 'Y'  
AND Ca_Vid_Id = 1;
```

2. We have a table **agreement** with columns:

```
(  
  id number -- id of entity (agreement/ add. agreement)  
  pId number -- id of agreement for add. agreement  
  dateCreate date -- date of creation  
  premium number -- bonus for agreement  
)
```

Task: Select all agreements that contain add. agreements created since 01.12.2020;

Task: Count the sum of premium for all agreements since 01.12.2020;

Task: Count the number of agreements with a premium of more than \$1000 and created after 01.12.2020;

```
SELECT *  
FROM agreement a  
WHERE a.id IN (  
  SELECT p.pld  
  FROM agreement p  
  WHERE p.dateCreate >= TO_DATE('2020-12-01', 'YYYY-MM-DD')  
  AND p.pld IS NOT NULL  
);
```

```

SELECT SUM(premium) AS total_premium
FROM agreement
WHERE dateCreate >= TO_DATE('2020-12-01', 'YYYY-MM-DD');

```

```

SELECT COUNT(*) AS high_value_agreements
FROM agreement
WHERE premium > 1000
  AND dateCreate >= TO_DATE('2020-12-01', 'YYYY-MM-DD');

```

3. We have tables:

```

subject - correspondents
(
  Id number,                -- Id
  name varchar2              -- Full name
  SubjectType number        -- type of subject (1 - legal entity, 2
- natural person)
)

```

```

SUBATR - attributes
(
  Id number,                -- Id
  SubjectId number,         -- bind with subject(sub_id)
  Bith_date number          -- date of birth
  Value varchar2(50)
)

```

Task: Select all natural persons older than 18 y.o. with the surname Snow.

```

SELECT s.*
FROM subject s
JOIN SUBATR a ON s.Id = a.SubjectId
WHERE s.SubjectType = 2
  AND LOWER(s.name) LIKE 'snow%'
  AND      TO_DATE(TO_CHAR(a.Bith_date),      'YYYYMMDD')      <=
ADD_MONTHS(SYSDATE, -12*18);

```

4. We have tables:

Subject - correspondents

```
(
  Id number,                -- Id
  name varchar2              -- Full name
  SubjectType number         -- type of subject (1 - legal
entity, 2 - natural person)
)
```

SubDoc - documents

```
(
  Id number,                -- Id
  SubjectId number,         -- bind with subject(sub_id)
  DocumentId number         -- 1 - ID card, 2 - passport, 3
- driver license
  Value varchar2(200)       -- value
)
```

Task: select all natural persons without passports and driver's licenses.

```
SELECT s.*
FROM subject s
WHERE s.SubjectType = 2
AND s.Id NOT IN (
  SELECT sd.SubjectId
  FROM SubDoc sd
  WHERE sd.DocumentId IN (2, 3)
);
```