

# CPS521 Lab 1

1. List of channels and their IDs for nonbusiness channels

```
SELECT C.CH_NAME, C.CH_ID
FROM CHANNEL C
WHERE NOT C.CH_CATEGORY = 'Business';
```

2. List of personal channels and their creators

```
SELECT Y.USER_NAME, C.CH_NAME
FROM CHANNEL C, YT_USER Y
WHERE C.USER_ID = Y.USER_ID
AND CH_CATEGORY = 'Personal'
ORDER BY C.CH_NAME;
```

3. Personal channel belonging to Alice

```
SELECT Y.USER_ID, Y.USER_NAME, C.CH_NAME
FROM CHANNEL C, YT_USER Y
WHERE C.USER_ID = Y.USER_ID
AND CH_CATEGORY = 'Personal'
AND Y.USER_NAME = 'Alice';
```

4. List of channels and number of their subscriptions (does not include channels with zero subscription)

```
SELECT C.CH_NAME, COUNT(S.USER_ID) AS NUMBER_OF_SUBSCRIPTION
FROM CHANNEL C, SUBSCRIPTION S
WHERE S.CH_ID = C.CH_ID
HAVING
COUNT(S.USER_ID) > 0
GROUP BY
C.CH_NAME
ORDER BY
C.CH_NAME;
```

5. List of channels and number of their subscriptions (include channels with zero subscription)

```
SELECT C.CH_NAME, COUNT(S.USER_ID) AS NUMBER_OF_SUBSCRIPTION
FROM SUBSCRIPTION S
RIGHT JOIN CHANNEL C ON S.CH_ID = C.CH_ID
GROUP BY
C.CH_NAME
ORDER BY
C.CH_NAME;
```

6. List of channels, their creator and number of their subscriptions

```
SELECT C.CH_NAME, Y.USER_NAME, COUNT(S.USER_ID) AS NUMBER_OF_SUBSCRIPTION
FROM SUBSCRIPTION S
RIGHT JOIN CHANNEL C ON S.CH_ID = C.CH_ID
JOIN YT_USER Y ON Y.USER_ID = C.USER_ID
GROUP BY
C.CH_NAME, Y.USER_NAME
ORDER BY
C.CH_NAME;
```

7. The total number of subscriptions

```
SELECT COUNT(SUBSCRIPTION_ID) AS TOTAL_NUMBER_OF_SUBSCRIPTIONS
FROM SUBSCRIPTION;
```