Business Insights Analyst Challenge

Question 1 - Birthdays

Attached is a list of a particular company's clients' birthdays (Q1_birthday_challenge.txt). There is something very interesting in the data. What is it? How do you think this happened?

Question 2 - SQL

Consider the following table, representing the results of a survey asking people their age, gender and education (full tables attached, Q2_survey.txt and Q2_key.txt)

id	ageband	gender	education
1	3	6	7
2	1	6	7
3	2	5	7
4	3	6	10
5	2	5	10
6	3	6	9
etc	etc	etc	etc

lookup	Descr
1	20-29
2	30-39
3	40-49
4	50-59
5	male
6	female
7	none
8	primary
9	secondary
10	tertiary

Write an SQL statement that produces the following summary results (for ageband)

ageband	count	id's
20-29	18	2,11,36,42, ...
30-39	24	3,5,10,12, ...
40-49	26	1,4,6,9,13, ...
50-59	32	7,8,15,16, ...

Similarly, give the SQL statement for gender and education. Ensure your solution wouldn't change much if the survey had many more questions.