1.

```sql
select count(student_id), source from public.campaign group by source
```

	count	source
1	1	www.hkage.org.hk
2	1	www.diafestivo.es
3	1	akvalink.bitrix24.ru
4	1	www.qpl-search.com
5	1	www.lablue.de
6	1	forum.redcountyrp.com
7	1	oleg-leusenko.livejournal.com
8	1	reviversoft.com
9	1	smartprogress.do
10	1	www.hledat.com
11	1	stronglang.wordpress.com
12	1	hdvidzpro.me
13	1	ascdedge.ascd.org
14	1	greenhouse.my.salesforce.com
15	1	im.ibope.com.br
16	3	email
17	11	direct

```sql
select student_id from public.campaign where campaign = 'big_savings'
```

select student_id from public.campaign where can

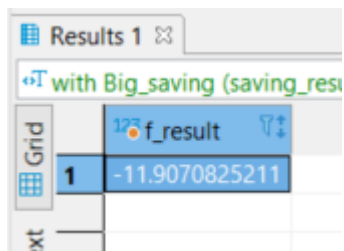|	student_id
1	fBmhZeyHHqcLFJxlh85r7Ktci29Pr2a9
2	IMos7Ypty1OdWxQrfgLDk020Yaw35PrV
3	IMos7Ypty1OdWxQrfgLDk020Yaw35PrV
4	L7Pjm8km0K9MJ59fxVUFkORcLbp69CKB
5	wgFBmNVsmNPx82vGcBg2jKeCORFvqaGD
6	qz3OyRUQBm5E8eyan1wAhjAoee1t0xoT
7	8140gqslB8laDh5yQXhwPRyfnq84Jnxk
8	sgFZ7hlTUNCjmku69pCI5EamtPVVPMio

```
2. with Big_saving (saving_result) as
(select (sum(classes_attended) / sum(classes_booked) * 100) as result0
from public.students s inner join public.campaign c
on s.id = c.student_id
where c.campaign = 'big_savings'),

Love_language (language_result) as

(select (sum(classes_attended) /sum(classes_booked) * 100) as result10
from public.students s inner join public.campaign c
on s.id = c.student_id
where c.campaign = 'i_love_languages')

select Big_saving.saving_result - Love_language.language_result as f_result from
Big_saving, Love_language
```

Results 1

with Big_saving (saving_res

	123 f_result
1	-11.9070825211

3. There are 9 duplicate student_id values in public.campaign. This should not be the case since public.campaign and public.students has one to one relationship. Student_id is the primary key of the public.campaign table and is a foreign key to the public.students table. There should not be a duplicate primary key.

I have done the analysis and figured out same student_id is coming from multiple 'source'.

If we define student_id as primary key we can check this problem out. If a single student is coming from multiple source we can ignore those values.