Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

a. List the name of the authors whose articles were published on 01/06/2018 and have reached at least 1000 hits. The query also must show the name of the newspaper in which the articles were published. Show only different values.

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

a. List the name of the authors whose articles were published on 01/06/2018 and have reached at least 1000 hits. The query also must show the name of the newspaper in which the articles were published. Show only different values.

```
SELECT DISTINCT a.name, p.name

FROM author a

JOIN article n ON a.aid = n.aid

JOIN newspaper p ON n.nwid = p.nwid

WHERE n.pdate = TO_DATE('01/06/2018') AND numHits > 1000;
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

#### Write the following queries with SQL sentences:

b. Show the name of the authors that have published more than 2 articles on the same day. The result also have to show the number of hits reached by those articles.

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

b. Show the name of the authors that have published more than 2 articles on the same day. The result also have to show the number of hits reached by those articles.

```
SELECT a.name, sum(numHits)
FROM author a
JOIN article n ON a.aid = n.aid
GROUP BY a.aid, a.name, n.pdate -- pdate is only dd-mm-yyyy
HAVING count(*) > 2;
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

#### Write the following queries with SQL sentences:

c. List the name of all the authors and the name of the newspapers in which they have published their articles. If an author has NOT published any article the query must show 'None' instead of the name of the newspaper.

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

c. List the name of all the authors and the name of the newspapers in which they have published their articles. If an author has NOT published any article the query must show 'None' instead of the name of the newspaper.

```
SELECT DISTINCT a.name, NVL(p.name,'(None)')
FROM author a
LEFT JOIN (article n JOIN newspaper p ON n.nwid = p.nwid)
ON a.aid = n.aid;
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

d. List the dates on which all the newspapers have published at least one article, the number of articles published on each date and total number of hits reached.

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

d. List the dates on which all the newspapers have published at least one article, the number of articles published on each date and total number of hits reached.

```
SELECT n.pdate, count(*), sum(n.numHits)
FROM article n GROUP BY n.pdate HAVING NOT EXISTS
  (SELECT p.nwid FROM newspaper p WHERE p.nwid NOT IN
    (SELECT p2.nwid FROM newspaper p2
    JOIN article n2 ON p2.nwid = n2.nwid
    WHERE n2.pdate = n.pdate));
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

d. List the dates on which all the newspapers have published at least one article, the number of articles published on each date and total number of hits reached.

#### **Alternate solution:**

```
SELECT n.pdate, count(*), sum(n.numHits)
FROM article n GROUP BY n.pdate
HAVING count(distinct nwid) =
    (select count(*) from newspaper);
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

#### Write the following queries with SQL sentences:

e. Show the name of the authors that have NOT published any article in a newspaper in which has appeared an article signed by 'John Smith'.

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

e. Show the name of the authors that have NOT published any article in a newspaper in which has appeared an article signed by 'John Smith'.

```
SELECT a.name FROM author a WHERE a.aid NOT IN
  (SELECT n.aid FROM article n WHERE n.nwid IN
    (SELECT n2.nwid FROM article n2
    JOIN author a2 ON n2.aid = a2.aid
    WHERE a2.name = 'John Smith'));
```

Given the following relations of a database that stores information related to online newspaper articles:

```
author(aid, name, section)
newspaper(nwid, name, url)
article(naid, headline, summary, nwid, aid, pdate, numHits)
```

Write the following queries with SQL sentences:

e. Show the name of the authors that have NOT published any article in a newspaper in which has appeared an article signed by 'John Smith'.

#### Alternate solution:

```
SELECT a.name FROM author a WHERE NOT EXISTS
  (SELECT n.nwid FROM article n WHERE n.aid = a.aid
  INTERSECT
  SELECT n2.nwid FROM article n2
  JOIN author a2 ON n2.aid = a2.aid
  WHERE a2.name = 'John Smith');
```