

Q1:List top 5 / bottom 5 constituencies of 2014 and 2019 in terms of voter turnout ratio?

Part a: Top 5 constituencies in terms of voter turnout 2014.

SQL code:

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as voter_turnout_ratio
  from 2014_result
  group by pc_name,state
  order by voter_turnout_ratio
  desc limit 5;
```

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as
voter_turnout_ratio
  from 2014_result
  group by pc_name,state
  order by voter_turnout_ratio
  desc limit 5;
```

Output :

pc_name	state	voter_turnout_ratio
Dhubri	Assam	88.35
Nagaland	Nagaland	87.82
Tamluk	West Bengal	87.59
Bishnupur	West Bengal	86.72
Kanthi	West Bengal	86.61

Part b: Top 5 constituencies in terms of voter turnout 2019.

SQL code:

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as voter_turnout_ratio
  from 2019_result
  group by pc_name,state
  order by voter_turnout_ratio
  desc limit 5;
```

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as
voter_turnout_ratio
  from 2019_result
  group by pc_name,state
  order by voter_turnout_ratio
  desc limit 5;
```

Output :

pc_name	state	voter_turnout_ratio
Dhubri	Assam	90.66
Bishnupur	West Bengal	87.31
Barpeta	Assam	86.55
Jalpaiguri	West Bengal	86.49
ARUNACHAL EAST	Arunachal Pradesh	86.46

**Part c:** Bottom 5 constituencies in terms of voter turnout 2014.

SQL code:

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as voter_turnout_ratio
  from 2014_result
  group by pc_name,state
  order by voter_turnout_ratio
  asc limit 5;
```

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as
voter_turnout_ratio
  from 2014_result
  group by pc_name,state
  order by voter_turnout_ratio
  asc limit 5;
```

Output :

	pc_name	state	voter_turnout_ratio
►	Garhwal	Uttarakhand	21.12
	Kheda	Gujarat	22.97
	Srinagar	Jammu & Kashmir	25.45
	Satara	Maharashtra	25.79
	Anantnag	Jammu & Kashmir	28.39

**Part d:** Bottom 5 constituencies in terms of voter turnout 2019.

SQL code:

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as voter_turnout_ratio
  from 2019_result
  group by pc_name,state
  order by voter_turnout_ratio
  asc limit 5;
```

```
select pc_name,state, round((sum(total_votes)/max(total_electors))*100,2) as
voter_turnout_ratio
  from 2019_result
  group by pc_name,state
  order by voter_turnout_ratio
  asc limit 5;
```

Output :

	pc_name	state	voter_turnout_ratio
►	Anantnag	Jammu & Kashmir	8.94
	Srinagar	Jammu & Kashmir	14.43
	Baramulla	Jammu & Kashmir	34.57
	Hyderabad	Telangana	44.84
	Kalyan	Maharashtra	45.29

Q2: List top 5 / bottom 5 states of 2014 and 2019 in terms of voter turnout ratio?

Part a: Top 5 states in terms of voter turnout 2014.

SQL code:

```
46 • select state,
47     round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
48     from (select state,pc_name,sum(total_votes) as total_votes,
49         max(total_electors) as total_available_votes
50         from 2014_result
51         group by state,pc_name) as subquery
52     group by state
53     order by voter_turnout_ratio desc
54     limit 5;
```

```
select state,
    round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
from (select state,pc_name,sum(total_votes) as total_votes,
    max(total_electors) as total_available_votes
    from 2014_result
    group by state,pc_name) as subquery
group by state
order by voter_turnout_ratio desc
limit 5;
```

Output :

	state	voter_turnout_ratio
►	Nagaland	87.82
	Lakshadweep	86.61
	Tripura	84.72
	Dadra & Nagar Haveli	84.07
	Sikkim	83.33

Part b: Top 5 states in terms of voter turnout 2019.

SQL code:

```
select state,
    round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
from (select state,pc_name,sum(total_votes) as total_votes,
```

```

        max(total_electors) as total_available_votes
    from 2019_result
    group by state,pc_name) as subquery
group by state
order by voter_turnout_ratio desc
limit 5;

```

```

57 • select state,
58     round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
59     from (select state,pc_name,sum(total_votes) as total_votes,
60             max(total_electors) as total_available_votes
61             from 2019_result
62             group by state,pc_name) as subquery
63     group by state
64     order by voter_turnout_ratio desc
65     limit 5;

```

Output :

	state	voter_turnout_ratio
▶	Lakshadweep	85.18
	Nagaland	82.91
	Manipur	82.54
	Tripura	82.35
	West Bengal	81.72

Part c: Bottom 5 states in terms of voter turnout 2014.

SQL code:

```

select state,
        round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
    from (select state,pc_name,sum(total_votes) as total_votes,
                max(total_electors) as total_available_votes
        from 2014_result
        group by state,pc_name) as subquery
group by state
order by voter_turnout_ratio
limit 5;

```

```

68 • select state,
69     round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
70     from (select state,pc_name,sum(total_votes) as total_votes,
71             max(total_electors) as total_available_votes
72             from 2014_result
73             group by state,pc_name) as subquery
74     group by state
75     order by voter_turnout_ratio
76     limit 5;

```

Output :

	state	voter_turnout_ratio
▶	Jammu & Kashmir	49.66
	Bihar	56.25
	Uttar Pradesh	58.42
	Maharashtra	60.29
	Madhya Pradesh	61.59

Part d: Bottom 5 states in terms of voter turnout 2019.

SQL code:

```
select state,
       round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
  from (select state,pc_name,sum(total_votes) as total_votes,
              max(total_electors) as total_available_votes
        from 2019_result
       group by state,pc_name) as subquery
 group by state
 order by voter_turnout_ratio
 limit 5;
```

```
79 • select state,
80      round((sum(total_votes))/sum(total_available_votes)*100,2) as voter_turnout_ratio
81      from (select state,pc_name,sum(total_votes) as total_votes,
82                max(total_electors) as total_available_votes
83              from 2019_result
84             group by state,pc_name) as subquery
85      group by state
86      order by voter_turnout_ratio
87      limit 5;
```

Output :

	state	voter_turnout_ratio
▶	Jammu & Kashmir	44.84
	Bihar	57.30
	Uttar Pradesh	59.18
	NCT OF Delhi	60.58
	Maharashtra	60.96

Q3: 3. Which constituencies have elected the same party for two consecutive elections, rank them by % of votes to that winning party in 2019

SQL code:

```
with cte1 as (
  SELECT *
  FROM 2014_result AS ind
  WHERE party = 'IND'
  AND (state, pc_name, total_votes) IN (
    SELECT state, pc_name, MAX(total_votes)
    FROM 2014_result
    WHERE party = 'IND'
    GROUP BY state, pc_name
  )
)
```

```

)
UNION ALL
(
    SELECT *
    FROM 2014_result AS others
    WHERE party != 'IND'
)),
cte2 as
((
    SELECT *
    FROM 2019_result AS ind
    WHERE party = 'IND'
    AND (state, pc_name, total_votes) IN (
        SELECT state, pc_name, MAX(total_votes)
        FROM 2019_result
        WHERE party = 'IND'
        GROUP BY state, pc_name
    )
)
UNION ALL
(
    SELECT *
    FROM 2019_result AS others
    WHERE party != 'IND'
))

```

```

select b.state,c.pc_name,b.party as 2014_winner,c.party as 2019_winner,
round((c.total_votes/c.total_electors)*100,2) as votes_2019_winner_ratio
from cte1 b
join cte2 c
on c.pc_name=b.pc_name and c.state=b.state
where
b.party = (
    SELECT party
    FROM cte1
    WHERE state = b.state AND pc_name = b.pc_name
    ORDER BY total_votes DESC
    LIMIT 1) and
b.party=c.party
AND c.party = (
    SELECT party
    FROM cte2
    WHERE state = c.state AND pc_name = c.pc_name
    ORDER BY total_votes DESC
    LIMIT 1)
order by votes_2019_winner_ratio desc;

```

Output :

	state	pc_name	2014_winner	2019_winner	votes_2019_winner_ratio
►	Kerala	Wayanad	INC	INC	51.95
	Madhya Pradesh	HOSHANGABAD	BJP	BJP	51.46
	Himachal Pradesh	Kangra	BJP	BJP	50.81
	Himachal Pradesh	Mandi	BJP	BJP	50.50
	Karnataka	Uttara Kannada	BJP	BJP	50.50
	Assam	Dibrugarh	BJP	BJP	50.18

Q4: 4. Which constituencies have voted for different parties in two elections (list top 10 based on difference (2019-2014) in winner vote percentage in two elections)

SQL code:

```
with cte1 as (
(
    SELECT *
    FROM 2014_result AS ind
    WHERE party = 'IND'
    AND (state, pc_name, total_votes) IN (
        SELECT state, pc_name, MAX(total_votes)
        FROM 2014_result
        WHERE party = 'IND'
        GROUP BY state, pc_name
    )
)
UNION ALL
(
    SELECT *
    FROM 2014_result AS others
    WHERE party != 'IND'
)),
cte2 as
((
    SELECT *
    FROM 2019_result AS ind
    WHERE party = 'IND'
    AND (state, pc_name, total_votes) IN (
        SELECT state, pc_name, MAX(total_votes)
        FROM 2019_result
        WHERE party = 'IND'
        GROUP BY state, pc_name
    )
)
UNION ALL
```

```

(
  SELECT *
  FROM 2019_result AS others
  WHERE party != 'IND'
))
select b.state,c.pc_name,b.party as 2014_winner,c.party as 2019_winner,
round((b.total_votes/b.total_electors)*100,2) as 2014_ratio,
round((c.total_votes/c.total_electors)*100,2) as 2019_ratio,
abs(round((b.total_votes/b.total_electors)*100,2)-
round((c.total_votes/c.total_electors)*100,2) )as diff
from cte1 b
join cte2 c
on c.pc_name=b.pc_name and c.state=b.state
where
b.party = (
  SELECT party
  FROM cte1
  WHERE state = b.state AND pc_name = b.pc_name
  ORDER BY total_votes DESC
  LIMIT 1) and
b.party!=c.party
AND c.party = (
  SELECT party
  FROM cte2
  WHERE state = c.state AND pc_name = c.pc_name
  ORDER BY total_votes DESC
  LIMIT 1)
order by diff desc limit 10;

```

Output :

	state	pc_name	2014_winner	2019_winner	2014_ratio	2019_ratio	diff
▶	West Bengal	Alipurduars	AITC	BJP	24.64	45.55	20.91
	Nagaland	Nagaland	NPF	NDPP	60.30	41.24	19.06
	Assam	Autonomous District	INC	BJP	30.35	47.91	17.56
	Puducherry	Puducherry	AINRC	INC	28.38	45.71	17.33
	Tripura	Tripura East	CPM	BJP	54.70	38.21	16.49
	Tamil Nadu	Kanniyakumari	BJP	INC	25.41	41.78	16.37
	Karnataka	Chikkballapur	INC	BJP	25.61	41.24	15.63
	Karnataka	Kolar	INC	BJP	28.06	43.51	15.45
	Uttar Pradesh	Sambhal	BJP	SP	21.28	35.98	14.70
	Bihar	Supaul	INC	JD(U)	21.82	35.33	13.51

Q5: 5. Top 5 candidates based on margin difference with runners in 2014 and 2019.

Part a: Top 5 candidates based on margin difference with runners in 2014.



SQL code:

```
with cte3 as (
select *,
row_number() over(partition by pc_name order by total_votes desc) as rnk
from 2014_result ),
cte4 as(
select state,pc_name,
max(Case when rnk=1 then total_votes end) as top1,
max(Case when rnk=2 then total_votes end) as top2
from cte3
where rnk<=2
group by state,pc_name)

select state,pc_name,
(select candidate from cte3 where pc_name=cte4.pc_name and rnk=1) as winner,
(select party from cte3 where pc_name=cte4.pc_name and rnk=1) as winning_party,
(select candidate from cte3 where pc_name=cte4.pc_name and rnk=2) as runner_up,
(select party from cte3 where pc_name=cte4.pc_name and rnk=2) as runner_up_party,
abs(top1-top2) as diff,top1,top2
from cte4 order by diff desc limit 5;
```

```
214 with cte3 as (
215 select *,
216 row_number() over(partition by pc_name order by total_votes desc) as rnk
217 from 2014_result ),
218 cte4 as(
219 select state,pc_name,
220 max(Case when rnk=1 then total_votes end) as top1,
221 max(Case when rnk=2 then total_votes end) as top2
222 from cte3
223 where rnk<=2
224 group by state,pc_name)
225
226 select state,pc_name,
227 (select candidate from cte3 where pc_name=cte4.pc_name and rnk=1) as winner,
228 (select party from cte3 where pc_name=cte4.pc_name and rnk=1) as winning_party,
229 (select candidate from cte3 where pc_name=cte4.pc_name and rnk=2) as runner_up,
230 (select party from cte3 where pc_name=cte4.pc_name and rnk=2) as runner_up_party,
231 abs(top1-top2) as diff,top1,top2
232 from cte4 order by diff desc limit 5
```

Output :

	state	pc_name	winner	winning_party	runner_up	runner_up_party	diff
►	Gujarat	Vadodara	NARENDRA MODI	BJP	MISTRI MADHUSUDAN DEVRAM	INC	570128
	Uttar Pradesh	Ghaziabad	VIJAY KUMAR SINGH	BJP	RAJ BABBAR	INC	567260
	Gujarat	Navsari	C. R. PATIL	BJP	MAKSUD MIRZA	INC	558116
	Rajasthan	Jaipur	RAMCHARAN BOHARA	BJP	DR. MAHESH JOSHI	INC	539345
	Gujarat	Surat	DARSHANA VIKRAM JARDOSH	BJP	DESAI NAISHADHBHAI BHUPATBHAI	INC	533190

**Part b:** Top 5 candidates based on margin difference with runners in 2019.

SQL code:

```

236 with cte5 as (
237     select *,
238     row_number() over(partition by pc_name order by total_votes desc) as rnk
239     from 2019_result ),
240 cte6 as(
241     select state,pc_name,
242     max(case when rnk=1 then total_votes end) as top1,
243     max(case when rnk=2 then total_votes end) as top2
244     from cte5
245     where rnk<=2
246     group by state,pc_name)
247
248     select state,pc_name,
249     (select candidate from cte5 where pc_name=cte6.pc_name and rnk=1) as winner,
250     (select party from cte5 where pc_name=cte6.pc_name and rnk=1) as winning_party,
251     (select candidate from cte5 where pc_name=cte6.pc_name and rnk=2) as runner_up,
252     (select party from cte5 where pc_name=cte6.pc_name and rnk=2) as runner_up_party,
253     abs(top1-top2) as diff,top1,top2
254     from cte6 order by diff desc limit 5;

```

```

with cte5 as (
select *,
row_number() over(partition by pc_name order by total_votes desc) as rnk
from 2019_result ),
cte6 as(
select state,pc_name,
max(case when rnk=1 then total_votes end) as top1,
max(case when rnk=2 then total_votes end) as top2
from cte5
where rnk<=2
group by state,pc_name)

```

```

select state,pc_name,
(select candidate from cte5 where pc_name=cte6.pc_name and rnk=1) as winner,
(select party from cte5 where pc_name=cte6.pc_name and rnk=1) as winning_party,
(select candidate from cte5 where pc_name=cte6.pc_name and rnk=2) as runner_up,
(select party from cte5 where pc_name=cte6.pc_name and rnk=2) as runner_up_party,
abs(top1-top2) as diff,top1,top2
from cte6 order by diff desc limit 5;

```

Output :

	state	pc_name	winner	winning_party	runner_up	runner_up_party	diff
►	Gujarat	Navsari	C. R. Patil	BJP	PATEL DHARMESHBHAI BHIMBHAI	INC	689668
	Haryana	Karnal	Sanjay Bhatia	BJP	Kuldip Sharma	INC	656142
	Haryana	Faridabad	KRISHAN PAL	BJP	AVTAR SINGH BHADANA	INC	638239
	Rajasthan	Bhilwara	SUBHASH CHANDRA BAHERIA	BJP	RAM PAL SHARMA	INC	612000
	Gujarat	Vadodara	RANJANBEN BHATT	BJP	PRASHANT PATEL (TIKO)	INC	589177

Q6: 6. % Split of votes of parties between 2014 vs 2019 at national level

Part a: % Split of votes of parties between 2014.

SQL code:

```

select party,round((tv/(select sum(total_votes) from 2014_result))*100,2) as voting_share
from
(select party,sum(total_votes) as tv from 2014_result group by party)
cte
order by voting_share desc;

```

```

258 • select party,round((tv/(select sum(total_votes) from 2014_result))*100,2) as voting_share from
259 (
260 select party,sum(total_votes) as tv from 2014_result group by party) cte
261 order by voting_share desc;
262

```

Output :

	party	voting_share
▶	BJP	30.97
	INC	18.58
	BSP	4.31
	AITC	4.08
	SP	3.58
	ADMK	3.48
	CPM	3.45

**Part b:** % Split of votes of parties between 2019.

SQL code:

```

select party,round((tv/(select sum(total_votes) from 2019_result))*100,2) as voting_share
from
(select party,sum(total_votes) as tv from 2019_result group by party) cte
order by voting_share desc;

```

```

264 • select party,round((tv/(select sum(total_votes) from 2019_result))*100,2) as voting_share from
265 (
266 select party,sum(total_votes) as tv from 2019_result group by party) cte
267 order by voting_share desc;

```

Output :

	party	voting_share
▶	BJP	37.30
	INC	19.46
	AITC	4.06
	BSP	3.62
	IND	2.70
	SP	2.55
	YSRCP	2.53

**Q7: 7. % Split of votes of parties between 2014 vs 2019 at state level.**

**Part a:** % Split of votes of parties between 2014.state

SQL code:

```
271 • SELECT
272     2014_result.state,
273     2014_result.party,
274     ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
275 FROM
276     2014_result
277 JOIN (
278     SELECT
279         state,
280         SUM(total_votes) AS state_total_votes
281     FROM
282         2014_result
283     GROUP BY
284         state
285 ) AS state_votes ON 2014_result.state = state_votes.state
286 GROUP BY
287     state, party;
```

```
SELECT
    2014_result.state,
    2014_result.party,
    ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
FROM
    2014_result
JOIN (
    SELECT
        state,
        SUM(total_votes) AS state_total_votes
    FROM
        2014_result
    GROUP BY
        state
) AS state_votes ON 2014_result.state = state_votes.state
GROUP BY
    state, party;
```

Output :

	state	party	voting_share_percentage
►	Telangana	TRS	13.93
	Telangana	INC	11.53
	Telangana	TDP	29.15
	Telangana	BSP	0.82
	Telangana	IND	1.96

Part b: % Split of votes of parties between 2019.state

SQL code:

```

289 • SELECT
290     2019_result.state,
291     2019_result.party,
292     ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
293 FROM
294     2019_result
295 JOIN (
296     SELECT
297         state,
298         SUM(total_votes) AS state_total_votes
299     FROM
300         2019_result
301     GROUP BY
302         state
303 ) AS state_votes ON 2019_result.state = state_votes.state
304 GROUP BY
305     state, party;

```

```

SELECT
    2019_result.state,
    2019_result.party,
    ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
FROM
    2019_result
JOIN (
    SELECT
        state,
        SUM(total_votes) AS state_total_votes
    FROM
        2019_result
    GROUP BY
        state
) AS state_votes ON 2019_result.state = state_votes.state
GROUP BY
    state, party;

```

Output

	state	party	voting_share_percentage
►	Andhra Pradesh	TDP	39.59
	Andhra Pradesh	BJP	0.96
	Andhra Pradesh	YSRCP	49.15
	Andhra Pradesh	INC	1.29
	Andhra Pradesh	JnP	5.79

Q8: 8. List top 5 constituencies for two major national parties where they have gained vote share in 2019 as compared to 2014.

Part a: Top 5 constituencies in terms of voter turnout 2014 to 2019 growth for BJP .  
SQL code:

```

311 -- for BJP
312 with cte as (
313     Select b.pc_name,b.total_votes as BJP_2014,c.total_votes as BJP_2019 from 2014_result b
314     join 2019_result c on b.pc_name=c.pc_name and b.total_votes<c.total_votes
315     where b.party="BJP" and c.party="BJP")
316     select pc_name,BJP_2014,BJP_2019,round(((BJP_2019-BJP_2014)/(BJP_2014))*100,2) as votes_gain
317     from cte order by votes_gain desc limit 5;

```

select party,sum(total\_votes) as total from 2014\_result group by party order by total desc limit 2;

with cte as (  
 Select b.pc\_name,b.total\_votes as BJP\_2014,c.total\_votes as BJP\_2019 from 2014\_result b  
 join 2019\_result c on b.pc\_name=c.pc\_name and b.total\_votes<c.total\_votes  
 where b.party="BJP" and c.party="BJP")  
 select pc\_name,BJP\_2014,BJP\_2019,round(((BJP\_2019-BJP\_2014)/(BJP\_2014))\*100,2) as  
 votes\_gain  
 from cte order by votes\_gain desc limit 5;

Output :

	pc_name	BJP_2014	BJP_2019	votes_gain
▶	Tripura West	54706	573532	948.39
	Tripura East	60613	482126	695.42
	Mathurapur	66538	522854	685.80
	Purulia	86236	668107	674.74
	Ghatal	94842	609986	543.16

**Part b:** Top 5 constituencies in terms of voter turnout 2014 to 2019 growth . for INC

SQL code:

-- for INC

with cte as (

Select b.pc\_name,b.total\_votes as INC\_2014,c.total\_votes as INC\_2019 from 2014\_result b  
 join 2019\_result c on b.pc\_name=c.pc\_name and b.total\_votes<c.total\_votes  
 where b.party="INC" and c.party="INC")  
 select pc\_name,INC\_2014,INC\_2019,round(((INC\_2019-INC\_2014)/(INC\_2014))\*100,2) as  
 votes\_gain  
 from cte order by votes\_gain desc limit 5;

```

319 -- for INC
320 with cte as (
321     Select b.pc_name,b.total_votes as INC_2014,c.total_votes as INC_2019 from 2014_result b
322     join 2019_result c on b.pc_name=c.pc_name and b.total_votes<c.total_votes
323     where b.party="INC" and c.party="INC")
324     select pc_name,INC_2014,INC_2019,round(((INC_2019-INC_2014)/(INC_2014))*100,2) as votes_gain
325     from cte order by votes_gain desc limit 5;

```

Output :

	pc_name	INC_2014	INC_2019	votes_gain
▶	Karur	30459	695697	2184.04
	Arani	27717	617760	2128.81
	Thiruvallur	43960	767292	1645.43
	Krishnagiri	38885	611298	1472.07
	Virudhunagar	38482	470883	1123.64

Q9: 9. List top 5 constituencies for two major national parties where they have lost vote share in 2019 as compared to 2014.

**Part a:** Top 5 constituencies in terms of voter turnout 2014 to 2019 lost . for BJP

SQL code:

with cte as (

Select b.pc\_name,b.total\_votes as BJP\_2014,c.total\_votes as BJP\_2019 from 2014\_result b  
join 2019\_result c on b.pc\_name=c.pc\_name and b.total\_votes>c.total\_votes

where b.party="BJP" and c.party="BJP")

select pc\_name,BJP\_2014,BJP\_2019,round(((BJP\_2014-BJP\_2019)/(BJP\_2014))\*100,2) as  
votes\_gain

from cte order by votes\_gain desc limit 5;

```

329      -- for BJP
330  • with cte as (
331      Select b.pc_name,b.total_votes as BJP_2014,c.total_votes as BJP_2019 from 2014_result b
332      join 2019_result c on b.pc_name=c.pc_name and b.total_votes>c.total_votes
333      where b.party="BJP" and c.party="BJP")
334      select pc_name,BJP_2014,BJP_2019,round(((BJP_2014-BJP_2019)/(BJP_2014))*100,2) as votes_gain
335      from cte order by votes_gain desc limit 5;
336

```

Output :

	pc_name	BJP_2014	BJP_2019	votes_loss
▶	Narsapuram	540306	12414	97.70
	Tirupati	542951	16125	97.03
	Visakhapatnam	566832	33892	94.02
	Bhongir	183249	65457	64.28
	Warangal	187139	83777	55.23

**Part b:** Top 5 constituencies in terms of voter turnout 2014 to 2019 lost . for BJP

SQL code:

-- INC

with cte as (

Select b.pc\_name,b.total\_votes as INC\_2014,c.total\_votes as INC\_2019 from 2014\_result b  
join 2019\_result c on b.pc\_name=c.pc\_name and b.total\_votes>c.total\_votes

where b.party="INC" and c.party="INC")

```
select pc_name,INC_2014,INC_2019,round(((INC_2014-INC_2019)/(INC_2014))*100,2) as
votes_gain
from cte order by votes_gain desc limit 5;
```

```
337      -- INC
338 • with cte as (
339     select b.pc_name,b.total_votes as INC_2014,c.total_votes as INC_2019 from 2014_result b
340     join 2019_result c on b.pc_name=c.pc_name and b.total_votes>c.total_votes
341     where b.party="INC" and c.party="INC")
342     select pc_name,INC_2014,INC_2019,round(((INC_2014-INC_2019)/(INC_2014))*100,2) as votes_gain
343     from cte order by votes_gain desc limit 5;
```

Output :

	pc_name	INC_2014	INC_2019	votes_loss
▶	Vizianagaram	122487	15725	87.16
	Ratnagiri - sindhudurg	343037	63299	81.55
	Kolkata Uttar	130783	26093	80.05
	Rampur	156466	35009	77.63
	Alipurduars	116718	27427	76.50

Q10:10.Which constituency has voted the most for NOTA?

Part a: SQL code:

```
Select pc_name, total_votes from 2014_result where party="NOTA" order by total_votes
desc limit 1;
```

```
346      -- 2014
347 • Select pc_name, total_votes from 2014_result where party="NOTA" order by total_votes desc limit 1;
```

Output :

	pc_name	total_votes
▶	Nilgiris	46559

Part b: SQL code:

```
Select pc_name, total_votes from 2019_result where party="NOTA" order by total_votes
desc limit 1;
```

```
349 • Select pc_name, total_votes from 2019_result where party="NOTA" order by total_votes desc limit 1;
```

Output :

	pc_name	total_votes
▶	Gopalganj (SC)	51660

:



Q11: Which constituencies have elected candidates whose party has less than 10% vote share at state level in 2019?

Part a: Top 5 states in terms of voter turnout 2014.

SQL code:

```
with cte_1 as (
SELECT
    2019_result.state,
    2019_result.party,
    ROUND(SUM(total_votes) / state_total_votes * 100, 2) AS voting_share_percentage
FROM
    2019_result
JOIN (
    SELECT
        state,
        SUM(total_votes) AS state_total_votes
    FROM
        2019_result
    GROUP BY
        state
) AS state_votes ON 2019_result.state = state_votes.state
GROUP BY
    state, party
having voting_share_percentage <10),
cte_2 as (
SELECT
    state,
    pc_name,
    party,
    total_votes
FROM
    (
        SELECT
            state,
            pc_name,
            party,
            total_votes,
            ROW_NUMBER() OVER (PARTITION BY pc_name ORDER BY total_votes DESC) AS
rnk
        FROM
            2019_result
    ) AS subquery
WHERE
    rnk = 1)
select c.pc_name from cte_1 b join cte_2 c on b.state=c.state and b.party=c.party
```

Output :

pc_name
Amravati
Anantnag
Baharampur
Baramulla
Chidambaram

36 pcs

Q12: Is there a correlation between postal votes % and voter turnout %?

SQL code:

```

397 with cte as (select state,sum(distinct total_electors) as electors,sum(postal_votes) as post
398 from 2014_result group by state)
399 select state,round((post/electors)*100,2) as postal_percentage,post
400 from cte order by post desc, postal_percentage desc ;
401

```

```

with cte as (select state,sum(distinct total_electors) as electors,sum(postal_votes) as post
from 2014_result group by state)
select state,round((post/electors)*100,2) as postal_percentage,post
from cte order by post desc, postal_percentage desc ;

```

Output :

	state	postal_percentage	post	electors
►	Telangana	0.37	238710	64934138
	Gujarat	0.31	123869	40603104
	Rajasthan	0.19	82993	42994657
	West Bengal	0.11	72018	62833113
	Tamil Nadu	0.13	70747	55114867

Q13: Is there a correlation between postal votes % and voter turnout %?

Part a: Top 5 states in terms of voter turnout 2014.

SQL code:

Output :

Part b: Top 5 states in terms of voter turnout 2014.

SQL code:

Output :