

1)

```
SELECT
    *
FROM
    INFORMATION_SCHEMA.COLUMNS
WHERE
    TABLE_NAME='naep'
```

2)

```
SELECT
    *
FROM
    naep
LIMIT 50;
```

3)

```
SELECT
    state,
    SUM(avg_math_4_score) AS total,
    AVG(avg_math_4_score) AS average,
    MIN(avg_math_4_score) AS minimum,
    MAX(avg_math_4_score) AS maximum
FROM
    naep
GROUP BY
    state
ORDER BY
    state
ASC;
```

4)

```
SELECT
    state,
    SUM(avg_math_4_score) AS total,
    AVG(avg_math_4_score) AS average,
    MIN(avg_math_4_score) AS minimum,
    MAX(avg_math_4_score) AS maximum
FROM
    naep
```

```
GROUP BY
    state
HAVING
    MAX(avg_math_4_score) - MIN(avg_math_4_score) > 30
ORDER BY
    state
ASC;
```

5)

```
SELECT
    state AS bottom_10_states
FROM
    naep
WHERE
    year = 2000
ORDER BY avg_math_4_score ASC
LIMIT 10
```

6)

```
SELECT
    ROUND(AVG(avg_math_4_score),2)
FROM
    naep
WHERE
    year = 2000
```

7)

```
SELECT
    state AS below_average_states_y2000
FROM
    naep
WHERE
    avg_math_4_score < (SELECT AVG(avg_math_4_score) FROM naep WHERE
    year=2000)
```

8)

```
SELECT
    state AS scores_missing_y2000
FROM
    naep
WHERE
    year=2000
AND
    avg_math_4_score IS null
```

9)

```
SELECT
    naep.state,ROUND(avg_math_4_score,2) AS avg_math_4_score,total_expenditure
FROM
    naep LEFT JOIN finance
ON
    naep.id = finance.id
WHERE
    naep.year=2000 AND avg_math_4_score is null
ORDER BY total_expenditure DESC
```