1.

SELECT column\_name, data\_type

FROM information\_schema.columns

WHERE table\_name = 'naep';

2.

SELECT \*

FROM naep

LIMIT 50;

3.

SELECT state,

COUNT(avg\_math\_4\_score) AS count,

MAX(avg\_math\_4\_score) AS max,

MIN(avg\_math\_4\_score) AS min,

MAX(avg\_math\_4\_score) - MIN(avg\_math\_4\_score) AS range,

ROUND(AVG(avg\_math\_4\_score), 3) AS mean,

ROUND(VARIANCE(avg\_math\_4\_score), 3) AS var,

ROUND(STDDEV(avg\_math\_4\_score), 3) AS std

FROM naep

GROUP BY state

ORDER BY state;

4.

SELECT state,

COUNT(avg\_math\_4\_score) AS count,

MAX(avg\_math\_4\_score) AS max,

MIN(avg\_math\_4\_score) AS min,

MAX(avg\_math\_4\_score) - MIN(avg\_math\_4\_score) AS range,

ROUND(AVG(avg\_math\_4\_score), 3) AS mean,

ROUND(VARIANCE(avg\_math\_4\_score), 3) AS var,

ROUND(STDDEV(avg\_math\_4\_score), 3) AS std

FROM naep

GROUP BY state

HAVING MAX(avg\_math\_4\_score) - MIN(avg\_math\_4\_score) > 30

ORDER BY state;

5.

SELECT state AS bottom\_10\_states, avg\_math\_4\_score

FROM naep

WHERE year = 2000

ORDER BY avg\_math\_4\_score ASC

LIMIT 10;

6.

SELECT ROUND(AVG(avg\_math\_4\_score), 2) AS total\_average\_math\_4\_score

FROM naep;

7.

SELECT state as below\_average\_states\_y2000, avg\_math\_4\_score,

(SELECT ROUND(AVG(avg\_math\_4\_score), 2)

FROM naep

WHERE year = 2000)

FROM naep

WHERE avg\_math\_4\_score < (SELECT AVG(avg\_math\_4\_score)

FROM naep

WHERE year = 2000)AND year = 2000;

8.

SELECT state AS scores\_missing\_y2000, avg\_math\_4\_score

FROM naep

WHERE avg\_math\_4\_score IS NULL AND year = 2000;

9.

SELECT naep.state, ROUND(avg\_math\_4\_score, 2) AS avg\_math\_4\_score, total\_expenditure

FROM naep LEFT OUTER JOIN finance

ON naep.id = finance.id

WHERE naep.year = 2000 AND avg\_math\_4\_score IS NOT NULL

ORDER BY total\_expenditure DESC;