

Building a VLOOKUP Function

- To build the VLOOKUP Function, we need
 - The value to lookup (SSID from Grad_Cohort_EOC_Path_Req)
 - The range of cells on the Demographic (GI) file to find the values
 - The column number within the selected range that contains the value to return (from the Demographic (GI) file)
 - Exact Match (FALSE)
- The next series of slides will demonstrate the VLOOKUP function step by step and then will demonstrate the VLOOKUP Wizard

VLOOKUP Step One

Pathway File Needing Names

Select Cell H2 on the pathway report and type =VLOOKUP(

| | E | F | G | H | I | J |
|---|----------|---------------------------|-----------|---|-------------|------------------|
| | Severity | L2_rec_type | ssid | | cohort_year | grad_points_ALG1 |
| s | I | GRAD_0004 | AA1234567 | =vlookup() | 2018 | 3 |
| s | I | GRAD_0004 | AA1234568 | VLOOKUP(lookup_value, table_array, col_index_num, [| | |
| s | I | GRAD_0004 | AA1234569 | | 2018 | 3 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234570 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234571 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234572 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234573 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234574 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234575 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234576 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234577 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234578 | 2018 |
| | GR0000 | Current graduation status | I | GRAD_0004 | AA1234579 | 2018 |
| | GR0000 | Current qraduation status | I | GRAD_0004 | AA1234580 | 2018 |



VLOOKUP Step Two

Pathway File Needing Names

In this step we want to find the State Student ID, Cell G2 value in the demographic file. Add a Comma after the G2 value.

| | G | H | I | J | K | L |
|----|-----------|--------------|------|-------------|------------------|------------------|
| 1 | ssid | | | cohort_year | grad_points_ALGT | grad_points_GEOM |
| 2 | AA1234567 | =vlookup(G2, | | | 3 | 2 |
| 3 | AA1234568 | | 2018 | | 4 | 4 |
| 4 | AA1234569 | | 2018 | | 3 | 2 |
| | | | 2018 | | 3 | 2 |
| | | | 2018 | | 4 | 3 |
| | | | 2018 | | 3 | 2 |
| | | | 2018 | | 1 | 1 |
| | | | 2018 | | 4 | 2 |
| | | | 2018 | | 2 | 1 |
| 11 | AA1234576 | | 2018 | | 3 | 3 |
| 12 | AA1234577 | | 2018 | | 3 | 3 |
| 13 | AA1234578 | | 2018 | | 5 | 4 |



VLOOKUP Step Three

Demographic (GI) File

| | A | B | C | D | E | F | G | H | I | J | K | L |
|----|------------|----------|----------|------------|-----------|-----------|------------|----------|---------|---------------|---------|---------|
| 1 | State | Reportin | Building | EMIS | | | | | | Summative | Native | Home |
| 2 | Student ID | g Period | IRN | Student ID | Number | Last Name | First Name | Middle | Date of | Racial/Ethnic | Languag | Languag |
| 1 | AA1234567 | S | 111111 | 000012391 | Smith | Jonhny | * | 00000000 | M | W | ENG | *** |
| 2 | | S | 111111 | 000012366 | Appleseed | Johnny | * | 00000000 | M | W | ENG | *** |
| 3 | | S | 111111 | 000012378 | Smith | Thomas | * | 00000000 | M | B | ENG | *** |
| 4 | | S | 111111 | 000012351 | Doe | Johnny | * | 00000000 | M | W | ENG | *** |
| 5 | | S | 111111 | 000012389 | Doe | Sally | * | 00000000 | F | W | ENG | *** |
| 6 | | S | 111111 | 000012363 | Smith | Jane | * | 00000000 | F | W | ENG | *** |
| 7 | | S | 111111 | 000012356 | Jones | Davy | * | 00000000 | M | W | ENG | *** |
| 8 | | S | 111111 | 000012367 | Jones | Dale | * | 00000000 | M | B | ENG | *** |
| 9 | | S | 111111 | 000012390 | Smith | Sally | * | 00000000 | F | W | ENG | *** |
| 10 | | S | 111111 | 000012377 | Rogers | Sarah | * | 00000000 | F | W | ENG | *** |
| 11 | | S | 111111 | 000012379 | Troyer | Harry | * | 00000000 | M | W | ENG | *** |

Place your cursor in cell A2 and drag over and down to select all values on the Demographic file



VLOOKUP Step Four

Pathway File Needing Names

The VLOOKUP values will automatically appear in the formula bar on the Grad_Cohort_EOC_Path_Req report based on the value range selected from the demographic spreadsheet

A screenshot of Microsoft Excel showing a VLOOKUP formula in the formula bar: =vlookup(G2, [DEMO_student_demographic_record_G1.csv]DEMO_student_demographic_record!\$A\$1:\$O\$50, 1). The formula bar is highlighted with a red oval. The spreadsheet area shows a table with columns M, N, and O. A callout box with a black arrow points from the text "Enter a comma after the last value in the formula" to the number 1 at the end of the formula in the formula bar.

| M | N | O |
|---|---|---|
| 3 | 4 | |
| 4 | 4 | |
| 4 | 4 | |
| 4 | 4 | |
| 3 | 3 | |
| 1 | 1 | |
| 4 | 2 | |
| 2 | 1 | |
| 3 | 3 | 3 |
| 3 | 3 | 3 |
| 5 | 4 | |
| 3 | 3 | |
| 3 | 3 | |



VLOOKUP Step Five

Indicate the column on the Demographic file that contains the value to bring back. In this case it is column number 6. Add a comma after the 6

To bring back the exact value from column 6, add “FALSE” and then close the function with a parenthesis “)”

Pathway File Needing Names

| I | J | K | L | M | N |
|-------------|------------------|------------------|------------------|------------------|------------------|
| cohort_year | grad_points_ALG1 | grad_points_GEOM | grad_points_MTH1 | grad_points_MTH2 | grad_points_ELA1 |
| 2018 | 4 | 4 | | | |
| 2018 | 3 | 2 | | | |
| 2018 | 3 | 2 | | | |
| 2018 | 4 | 3 | | | |
| 2018 | 3 | 2 | | | |
| 2018 | 1 | 1 | | | |
| 2018 | 4 | 2 | | | |
| 2018 | 2 | 1 | | | |
| 2018 | 3 | 3 | | 3 | 3 |
| 2018 | 3 | 3 | | 3 | 3 |

Demographic (GI) File

| | State | Fiscal Year | Reporting Period | Building IRN | EMIS Student ID Number | Last Name | First Name | Middle Name | Date of Birth | Gender | Summative Racial/Ethnic Group | Native Language | Home Language | Hispanic /Latino | Record Valid |
|---|-----------|-------------|------------------|--------------|------------------------|-----------|------------|-------------|---------------|--------|-------------------------------|-----------------|---------------|------------------|--------------|
| 1 | AA1234567 | 2018 | S | 111111 | 000012391 | Smith | Johnny | * | 00000000 | M | W | ENG | *** | N | Yes |
| 2 | AA1234568 | 2018 | S | 111111 | 000012366 | Appleseed | Johnny | * | 00000000 | M | W | ENG | *** | N | Yes |
| 3 | AA1234569 | 2018 | S | 111111 | 000012378 | Smith | Thomas | * | 00000000 | M | B | ENG | *** | N | Yes |
| 4 | AA1234570 | 2018 | S | 111111 | 000012351 | Doe | Johnny | * | 00000000 | M | W | ENG | *** | N | Yes |
| 5 | A | 171 | S | 100 | 1000000000000000000 | Doe | Sally | * | 00000000 | F | W | ENG | *** | N | Yes |
| 6 | A | 171 | S | 100 | 1000000000000000000 | Doe | Jane | * | 00000000 | F | W | ENG | *** | N | Yes |
| 7 | A | 171 | S | 100 | 1000000000000000000 | Doe | Davy | * | 00000000 | M | W | ENG | *** | N | Yes |
| 8 | A | 171 | S | 100 | 1000000000000000000 | Doe | | | | | | | | | |



VLOOKUP Step Six

After pressing “Enter” the student’s last name appears in the search

Click at the bottom right of the H2 cell and get a + symbol and then drag down or double click to populate the same function into the cells below

The same process can be done to bring in first and middle names into the Prep for Success report

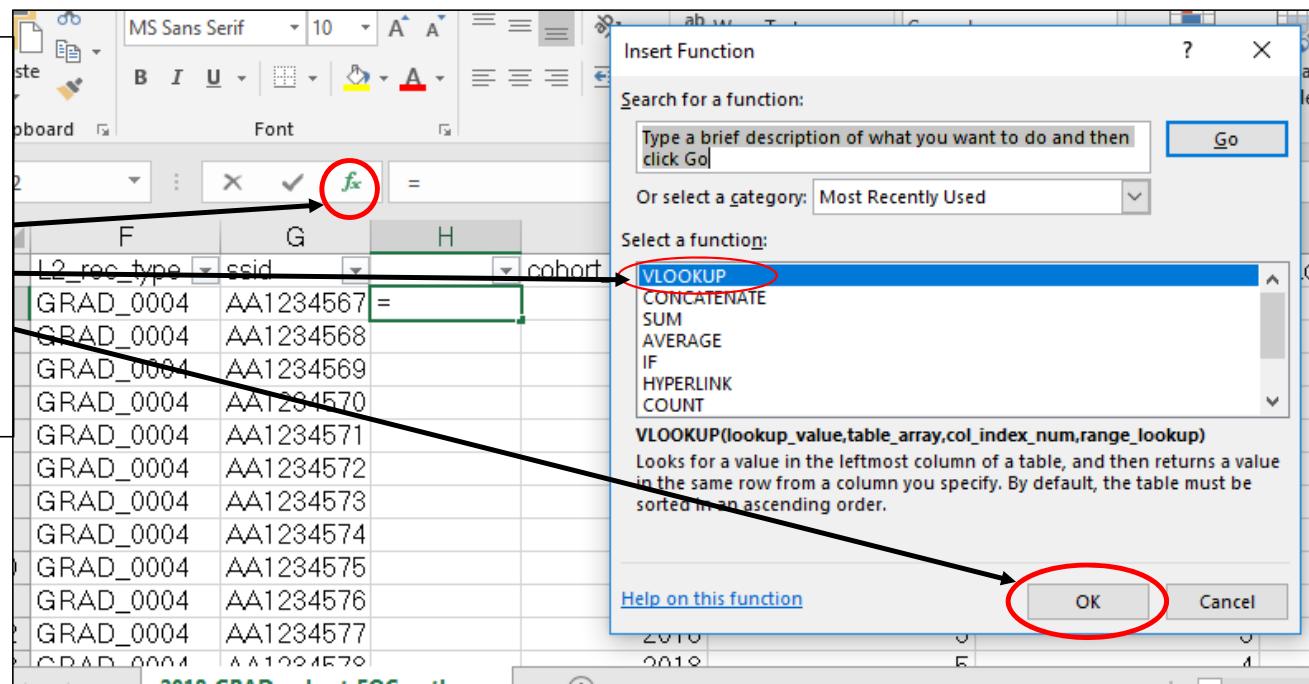
| B | C | D | E | F | G | H | I |
|------------|--------|---------------------------|----------|-------------|-----------|-------|-------------|
| 1 BLDG_IRN | Result | Result_Description | Severity | L2_rec_type | ssid | | cohort_year |
| 2 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234567 | Smith | 2018 |
| 3 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234568 | | 2018 |
| 4 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234569 | | 2018 |
| 5 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234570 | | 2018 |
| 6 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234571 | | 2018 |
| 7 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234572 | | 2018 |
| 8 | GR0000 | Current graduation status | I | GRAD_0004 | AA1234573 | | 2018 |

| F | G | H | I | J |
|---------------|-----------|-----------|-------------|-----------------|
| 1 L2_rec_type | ssid | | cohort_year | grad_points_ALC |
| 2 GRAD_0004 | AA1234567 | Smith | 2018 | |
| 3 GRAD_0004 | AA1234568 | Appleseed | 2018 | |
| 4 GRAD_0004 | AA1234569 | Smith | 2018 | |
| 5 GRAD_0004 | AA1234570 | Doe | 2018 | |
| 6 GRAD_0004 | AA1234571 | Doe | 2018 | |
| 7 GRAD_0004 | AA1234572 | Smith | 2018 | |
| 8 GRAD_0004 | AA1234573 | Jones | 2018 | |
| 9 GRAD_0004 | AA1234574 | | 2018 | |
| 10 GRAD_0004 | AA1234575 | | 2018 | |



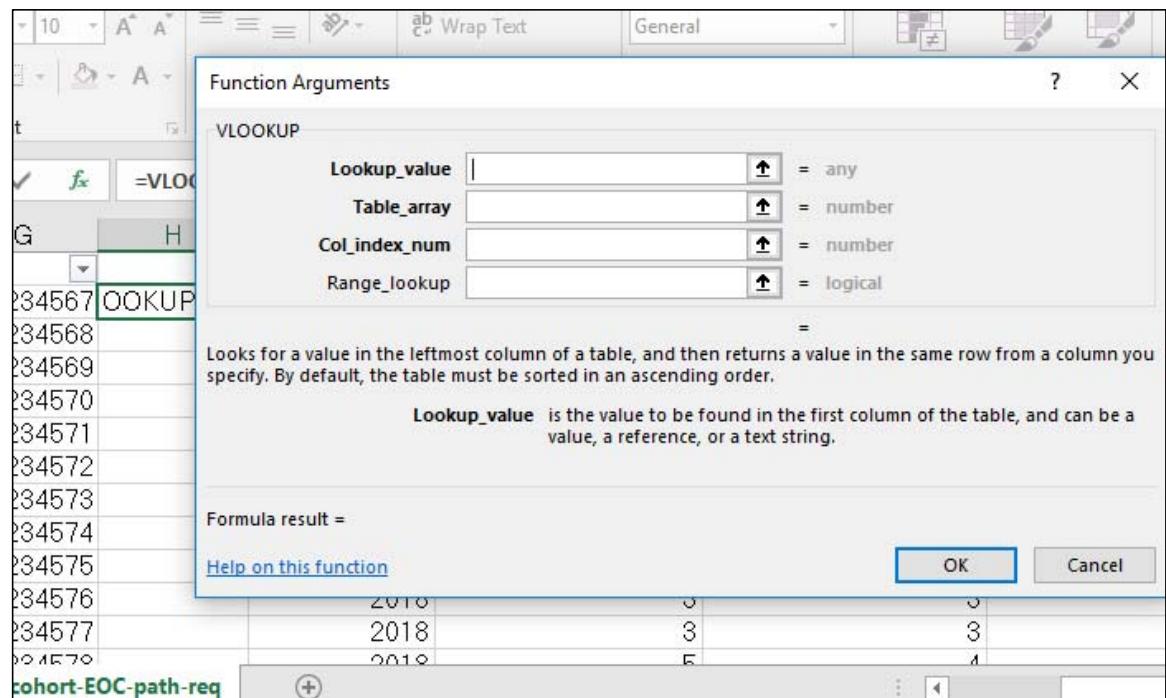
VLOOKUP Wizard

To use the Wizard for the VLOOKUP click on the Function icon, then choose VLOOKUP and click ok



VLOOKUP Wizard, cont'd

- 1. Lookup_value = G2**
- 2. Table_array = Select from demographic file to populate (Key F4 after selecting the table array to make the range absolute)**
- 3. Col_index_num = Which Column in source file? 6**
- 4. Range_Lookup = False**



VLOOKUP Wizard, cont'd

**VLOOKUP Wizard
will preview the
value it will bring
back**

**If the preview doesn't bring
back the correct value,
check your formula. If the
formula is correct, then that
student may not be in the
demographic file.**

