

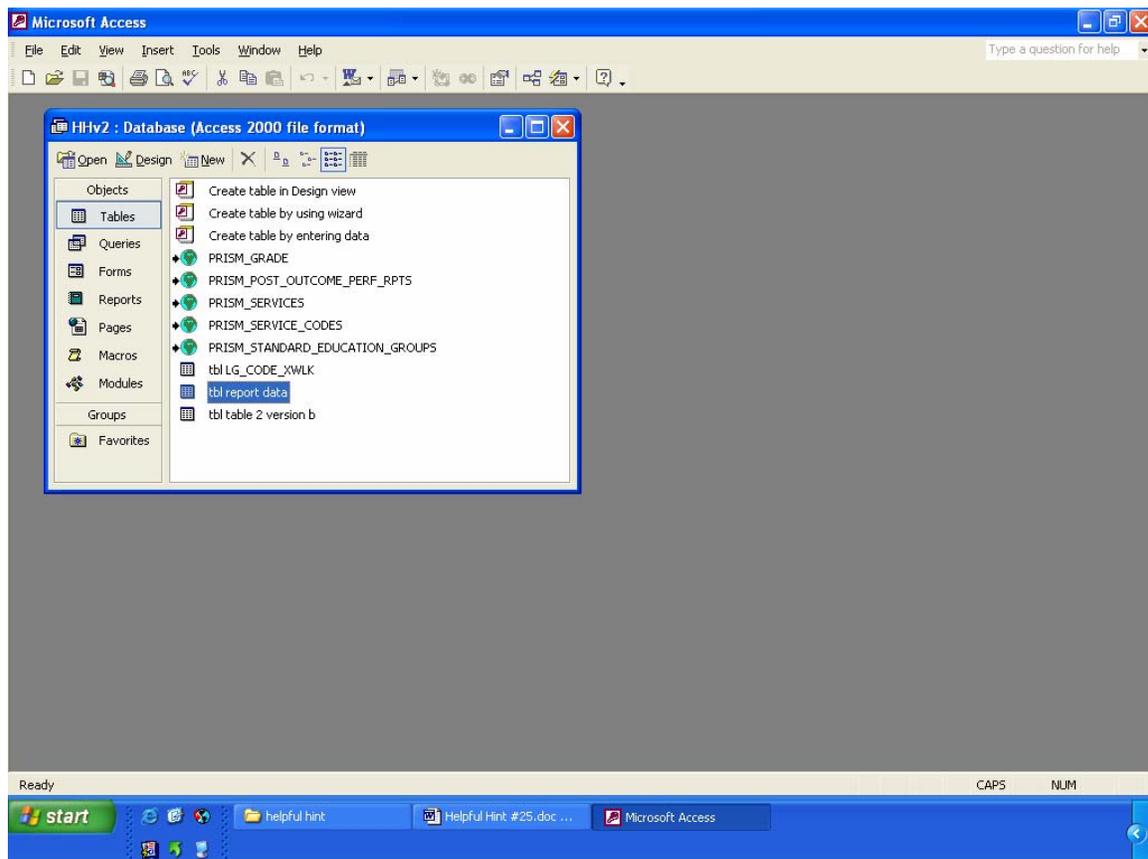
Helpful Hint #25 – Average Days of Service Received, by Client’s Education Level

This Helpful Hint will demonstrate how to set-up queries and a report that lists the average number of days of *Level I* services received, by the client’s education level. The period for this report is July 1, 2006 thru June 30, 2007.

Prior to running queries on the workstation, ODBC (Open DataBase Connectivity) must be installed and properly configured to connect to the PRISM database (http://www.oregon.gov/PRISM/TechnicalInfo.shtml#Desk_Manual). Microsoft Access configuration is required only once for each workstation. The connection will enable you to connect to the PRISM tables needed for completing the data analysis.

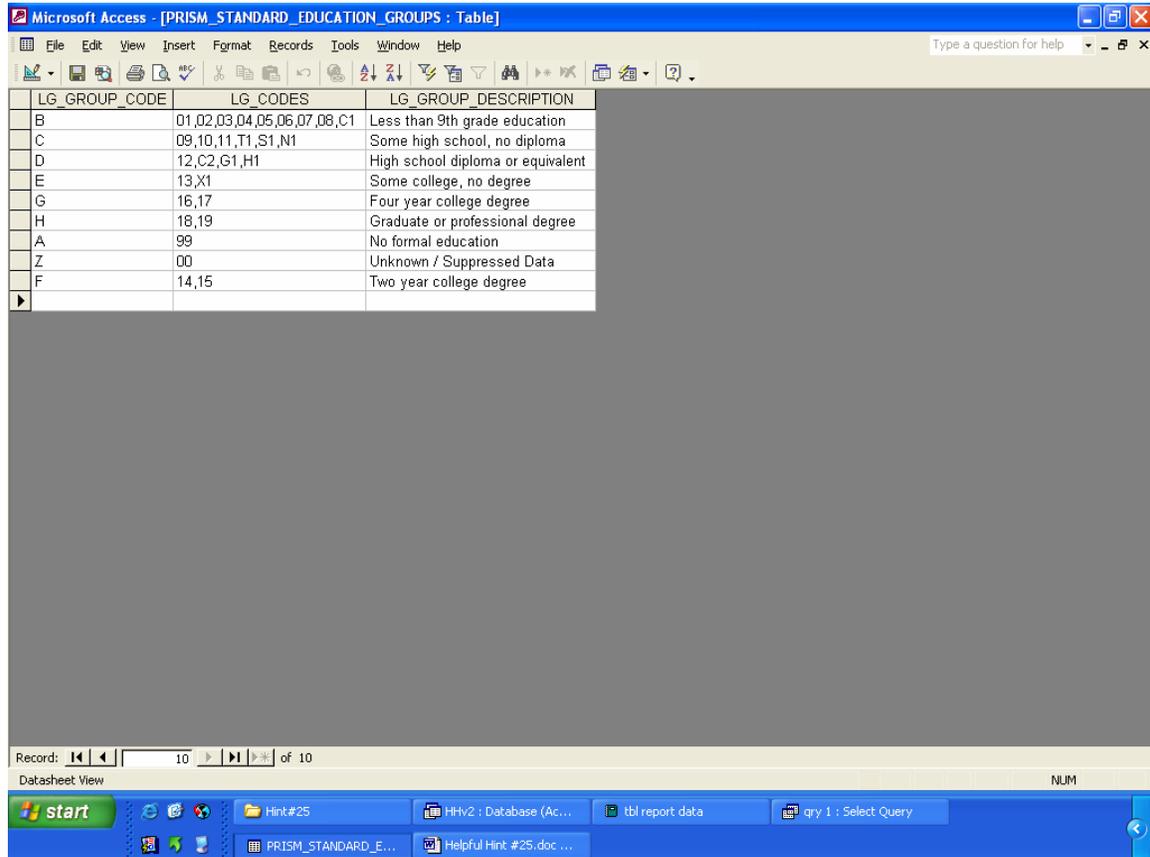
Create Access tables by linking to the following PRISM tables through ODBC.

1. PRISM.POST_OUTCOME_PERF_RPTS
2. PRISM_GRADE
3. PRISM_SERVICES
4. PRISM_SERVICE_CODES
5. PRISM_STANDARD_EDUCATION_GROUPS



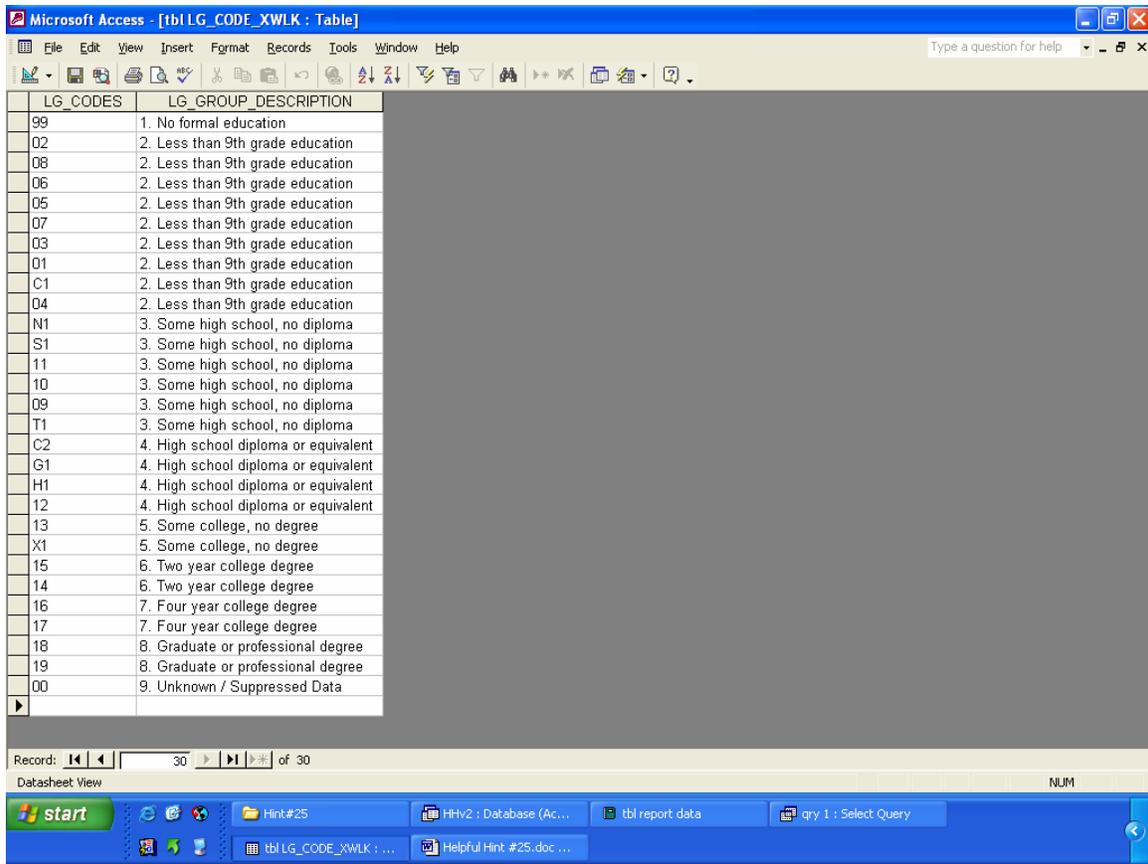
The next step is to construct a new table. It is probably easiest to open a blank table and copy/paste or type in the data fields.

The goal is produce a table based on the ODBC table PRISM_STANDARD_EDUCATION_GROUPS (see below)...



...and create a two-column table where all items in column LG_CODES have a one-to-one correspondence with items in column LG_GROUP_DESCRIPTION. Make column LG_CODES the primary key.

Here is an example of the finished product, titled 'TBL LG_CODE_XWLK'. Take a moment to compare it with the screen shot above.



Now it is time to construct five queries. They are given generic names in this document; feel free to name them what you would like.

The first is a select query that lists all client id numbers by state agency, intake date, and education level. It uses two tables joined by one link:

PRISM_POST_OUTCOME_PERF_RPTS. LAST GRADE to TBL
LG_CODE_XWLK. LG_CODE

Select the following fields and criteria.

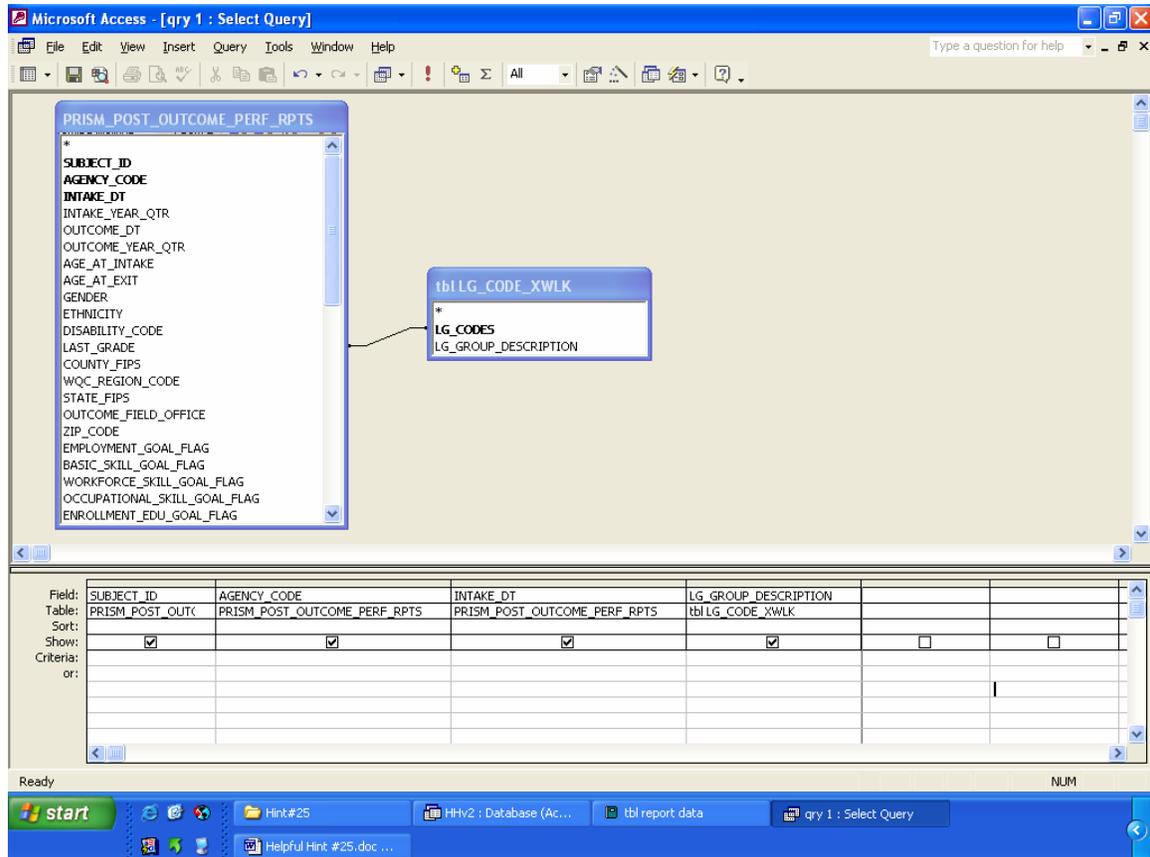
PRISM_POST_OUTCOME_PERF_RPTS.
SUBJECT_ID

PRISM_POST_OUTCOME_PERF_RPTS.
AGENCY_CODE

PRISM_POST_OUTCOME_PERF_RPTS.
INTAKE_DT

TBL LG_CODE_XWLK. LG_GROUP_DESCRIPTION

See below



Save the query as 'QRY 1' and run.

The second query makes a table that determines what service a client received and for how long. It can focus on a given time period; this example uses July 1, 2006 thru June 30, 2007. Choose the table PRISM_SERVICES.

Select the following fields and criteria. Be sure to click the "Σ" on the toolbar.

Group By
PRISM_SERVICES. AGENCY_CODE

Group by
PRISM_SERVICES. SUBJECT_ID

Group by
PRISM_SERVICES. INTAKE_ID

Group by
PRISM_SERVICES. SERVICE_CODE

Group by
PRISM_SERVICES. SERVICE_DT

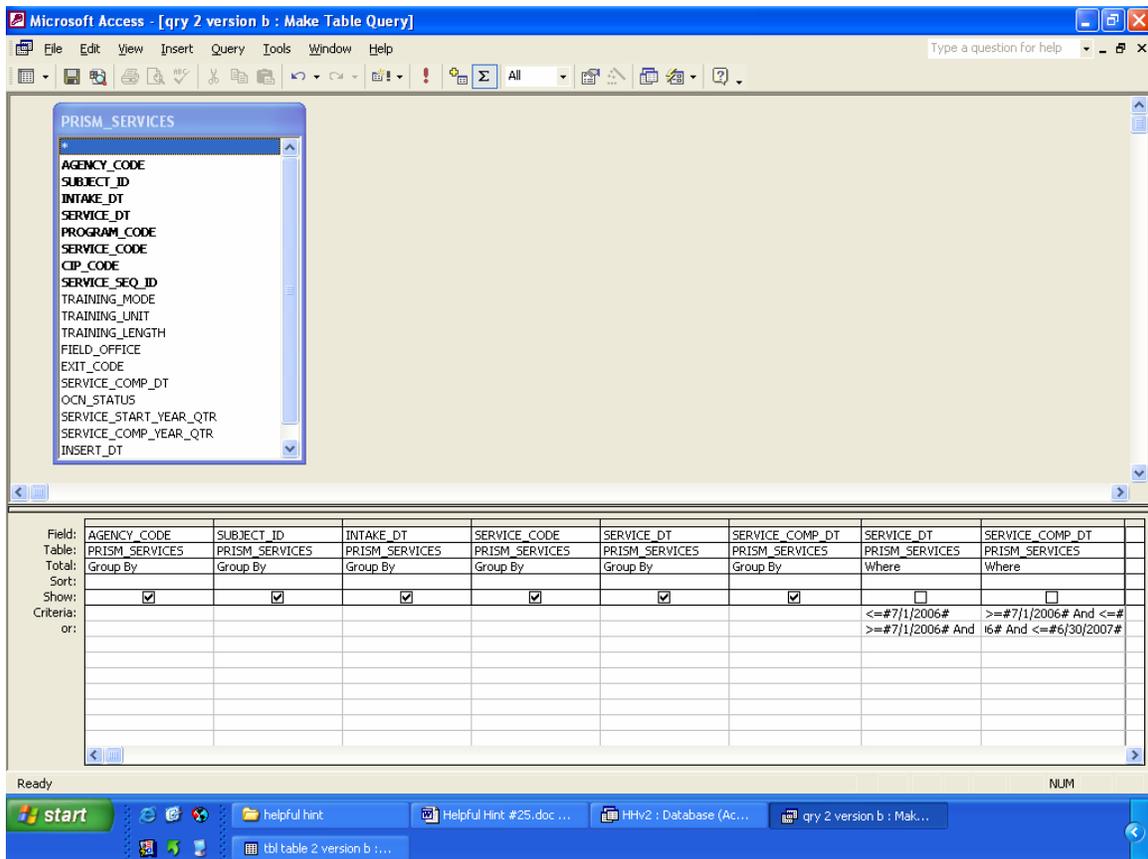
Group by
PRISM_SERVICES. SERVICE_COMP_DT

Where
PRISM_SERVICES. SERVICE_DT
(Criteria) <=#7/1/2006# or >=#7/1/2006# And <=#6/30/2007#

Where
PRISM_SERVICES. SERVICE_COMP_DT
(Criteria) >=#7/1/2006# And <=#6/30/2007# or >=#7/1/2006# And
<=#6/30/2007#

Title the new table 'TBL 2'

See below.



Save as 'QRY 2' and run.

The third is a select query that calculates the number of days a client received a service.

It uses two tables joined by one link:

PRISM_SERVICE_CODES. SERVICE to TBL 2. SERVICE_CODE

Select the following fields and criteria.

TBL 2. AGENCY_CODE

TBL 2. SUBJECT_ID

TBL 2. INTAKE_ID

TBL 2. SERVICE_CODE

Expression

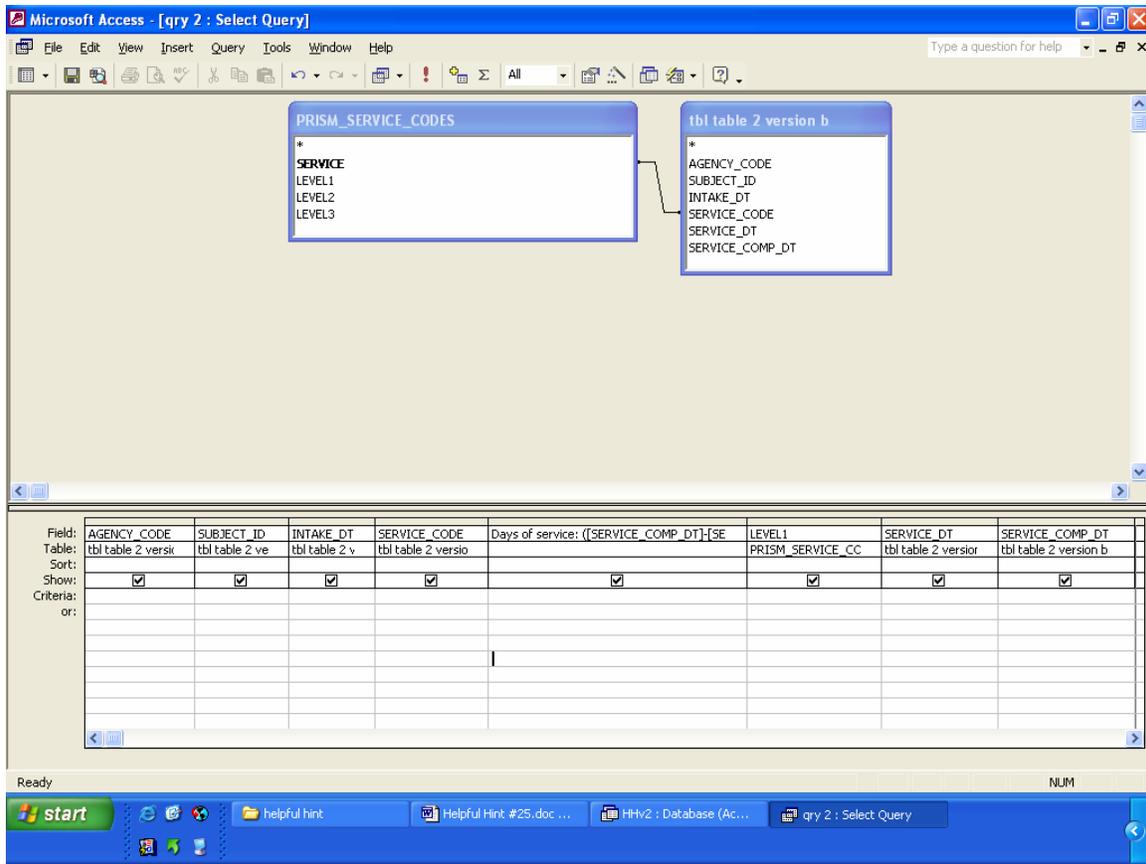
Days of Service: ([SERVICE_COMP_DT]-[SERVICE_DT])+1

PRISM_SERVICE_CODES. LEVEL1

TBL 2. SERVICE_DT

TBL 2. SERVICE_COMP_DT

See below.



Save as 'QRY 3' and run.

The fourth query makes a table with data needed for the final report. It uses two tables and three links.

QRY 1.SUBJECT_ID to QRY 3. SUBJECT_ID

QRY 1. AGENCY_CODE to QRY 3. AGENCY_CODE

QRY 1. INTAKE_DT to QRY 3. INTAKE_DT

Select the following fields and criteria. Be sure to click the "Σ" on the toolbar.

Group by
QRY 3. LEVEL1

QRY 1. LG_GROUP_DESCRIPTION

Avg
QRY 3. Days of service

Expression

Days: (FormatNumber(Avg(IIf([days of service]>0,[days of service],0)),0),0))

See below.

The screenshot shows the Microsoft Access interface. At the top, the title bar reads "Microsoft Access - [qry report data : Make Table Query]". The menu bar includes File, Edit, View, Insert, Query, Tools, Window, and Help. A search bar on the right says "Type a question for help".

The main workspace displays two query objects:

- qry 1**: SUBJECT_ID, AGENCY_CODE, INTAKE_DT, LG_GROUP_DESCRIPTION
- qry 2**: AGENCY_CODE, SUBJECT_ID, INTAKE_DT, SERVICE_CODE, Days of service, LEVEL1, SERVICE_DT, SERVICE_COMP_DT

Relationship lines connect the fields between the two queries. Below the workspace is a table design view with the following fields:

Field:	LEVEL1	LG_GROUP_DESCRIPTION	Days of service	days: (FormatNumber(Avg(IIf([days of service]>0,[days of service],0)),0))		
Table:	qry 2	qry 1	qry 2	Expression		
Total:	Group By	Group By	Avg	Expression		
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Criteria:						
or:						

The status bar at the bottom shows "Ready" and "NUM". The Windows taskbar at the very bottom includes the Start button and several open applications: "Hint:#25", "HHv2 : Database (Ac...", "qry report data : Mak...", and "Helpful Hint #25.doc ...".

Title the new table 'TBL REPORT DATA'. Save the query as 'QRY REPORT DATA' and run. It should look like this:

LEVEL1	LG_GROUP_DESCRIPTION	AvgOfDays of service	days
Assessment/svc strategies	1. No formal education	7.16666666666667	7
Assessment/svc strategies	2. Less than 9th grade education	79.2889122070654	79
Assessment/svc strategies	3. Some high school, no diploma	25.7052418510505	26
Assessment/svc strategies	4. High school diploma or equivalent	5.89794224825314	6
Assessment/svc strategies	5. Some college, no degree	4.66437313523717	5
Assessment/svc strategies	6. Two year college degree	4.57058232583919	5
Assessment/svc strategies	7. Four year college degree	7.11758058760557	7
Assessment/svc strategies	8. Graduate or professional degree	1.61315733446881	2
Assessment/svc strategies	9. Unknown / Suppressed Data	6.7386051619989	7
Basic skills development	2. Less than 9th grade education	107.948681397006	108
Basic skills development	3. Some high school, no diploma	131.524904775857	132
Basic skills development	4. High school diploma or equivalent	110.92118226601	111
Basic skills development	5. Some college, no degree	100.747572815534	101
Basic skills development	6. Two year college degree	147.087431693989	147
Basic skills development	7. Four year college degree	115.175572519084	115
Basic skills development	8. Graduate or professional degree	107.78125	108
Basic skills development	9. Unknown / Suppressed Data	146.750670241287	147
Education and training	1. No formal education		1
Education and training	2. Less than 9th grade education	162.247967479675	162
Education and training	3. Some high school, no diploma	109.372009569378	109
Education and training	4. High school diploma or equivalent	78.4667501347111	78
Education and training	5. Some college, no degree	89.8643572621035	90
Education and training	6. Two year college degree	87.2638476755687	87
Education and training	7. Four year college degree	68.8103756708408	69
Education and training	8. Graduate or professional degree	71.6957210776545	72
Education and training	9. Unknown / Suppressed Data	78.2404275569222	78
Employability skills	2. Less than 9th grade education	114.872483221477	115
Employability skills	3. Some high school, no diploma	54.9921568627451	55
Employability skills	4. High school diploma or equivalent	31.9683766233766	32
Employability skills	5. Some college, no degree	11.1692254012561	11
Employability skills	6. Two year college degree	11.0668076109937	11
Employability skills	7. Four year college degree	5.57535407990948	6

The last query appends TBL REPORT DATA. It creates the daily average length of service, for all education levels. It uses two tables and three links.

QRY 1.SUBJECT_ID to QRY 3. SUBJECT_ID

QRY 1. AGENCY_CODE to QRY 3. AGENCY_CODE

QRY 1. INTAKE_DT to QRY 3. INTAKE_DT

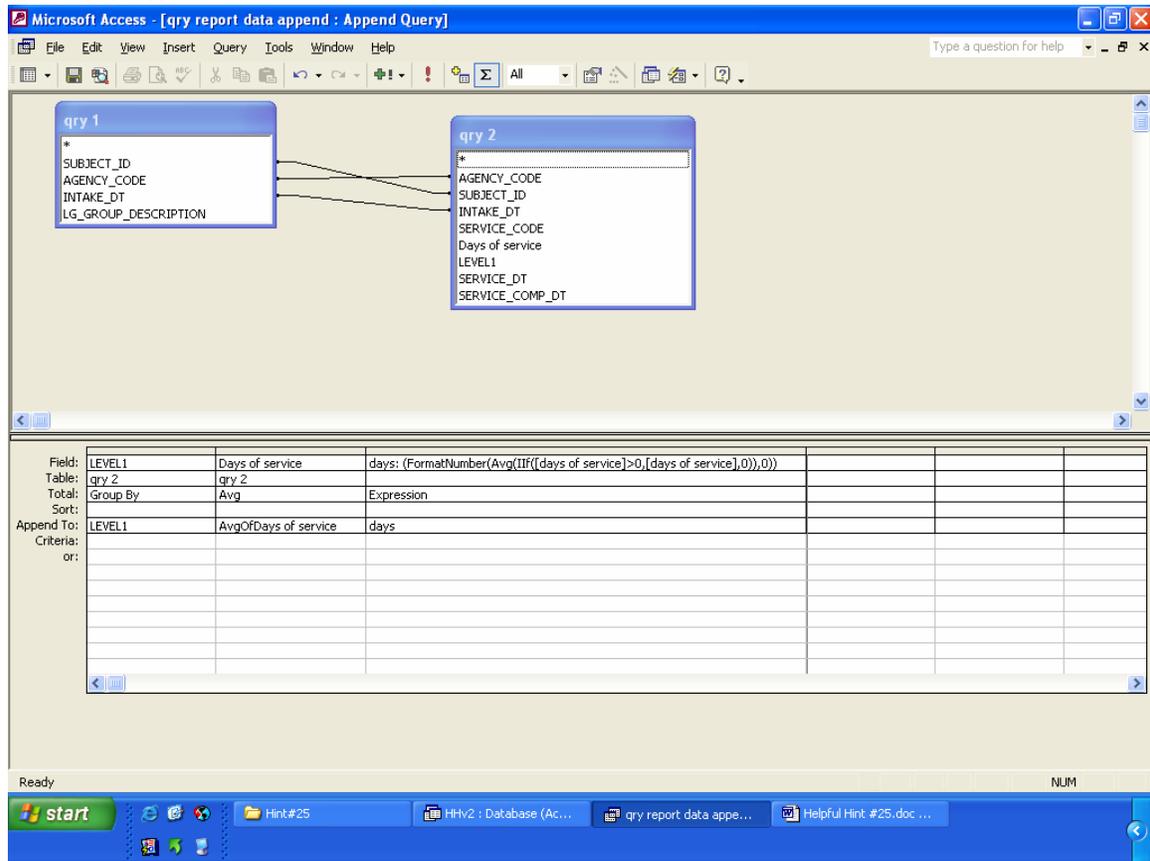
Select the following fields and criteria. Be sure to click the “Σ” on the toolbar.

Group by
QRY 3. LEVEL1

Avg
QRY 3. Days of service

Expression
Days: (FormatNumber(Avg(IIf([days of service]>0,[days of service],0)),0))

See below.



Save as 'QRY REPORT DATA APPEND' and run. TBL REPORT DATA should now look like this:

Microsoft Access - [tbl report data : Table]

File Edit View Insert Format Records Tools Window Help

Type a question for help

LEVEL1	LG_GROUP_DESCRIPTION	AvgOfDays of service	days
Job placement	3. Some high school, no diploma	8.0153021561593	8
Job placement	4. High school diploma or equivalent	6.40962171550906	6
Job placement	5. Some college, no degree	4.2171138903568	4
Job placement	6. Two year college degree	3.47854343566297	3
Job placement	7. Four year college degree	5.05443855847179	5
Job placement	8. Graduate or professional degree	1.01042825361513	1
Job placement	9. Unknown / Suppressed Data	7.95819003304336	8
Referrals	2. Less than 9th grade education	45.212962962963	45
Referrals	3. Some high school, no diploma	2.04693244211029	2
Referrals	4. High school diploma or equivalent	1.4833629933532	1
Referrals	5. Some college, no degree	1.15208849539173	1
Referrals	6. Two year college degree	1.12702676197942	1
Referrals	7. Four year college degree	1.09300583592335	1
Referrals	8. Graduate or professional degree		1
Referrals	9. Unknown / Suppressed Data	1.88833765272121	2
Support services	1. No formal education	4.0327868852459	4
Support services	2. Less than 9th grade education	79.1439075630252	79
Support services	3. Some high school, no diploma	86.7084148727984	87
Support services	4. High school diploma or equivalent	70.263659319052	70
Support services	5. Some college, no degree	52.7415191740413	53
Support services	6. Two year college degree	161.243375858685	161
Support services	7. Four year college degree	11.4499770887429	11
Support Services	8. Graduate or professional degree		1
Support services	9. Unknown / Suppressed Data	57.4030303030303	57
Assessment/svc strategies		9.76954470570615	10
Basic skills development		123.187479858202	123
Education and training		81.3965695542719	81
Employability skills		29.9187151852749	30
Job placement		5.81264444885621	6
Referrals		1.403281908488	1
Support services		64.7972816790717	65

Record: 1 of 67

Datasheet View

NUM

start

Hint.#25

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tbl report data : Table

Helpful Hint #25.doc ...

You will notice some rows that do not have anything listed in the 'LG_GROUP_DESCRIPTION' column. Simply type 'All grades' in these empty spaces. See below.

Microsoft Access - [tbl report data : Table]

File Edit View Insert Format Records Tools Window Help

Type a question for help

LEVEL1	LG_GROUP_DESCRIPTION	AvgOfDays of service	days
Job placement	3. Some high school, no diploma	8.0153021561593	8
Job placement	4. High school diploma or equivalent	6.40962171550906	6
Job placement	5. Some college, no degree	4.2171138903568	4
Job placement	6. Two year college degree	3.47854343566297	3
Job placement	7. Four year college degree	5.05443855847179	5
Job placement	8. Graduate or professional degree	1.01042825361513	1
Job placement	9. Unknown / Suppressed Data	7.95819003304336	8
Referrals	2. Less than 9th grade education	45.212962962963	45
Referrals	3. Some high school, no diploma	2.04693244211029	2
Referrals	4. High school diploma or equivalent	1.4833629933532	1
Referrals	5. Some college, no degree	1.15208849539173	1
Referrals	6. Two year college degree	1.12702676197942	1
Referrals	7. Four year college degree	1.09300583592335	1
Referrals	8. Graduate or professional degree		1
Referrals	9. Unknown / Suppressed Data	1.88833765272121	2
Support services	1. No formal education	4.0327868852459	4
Support services	2. Less than 9th grade education	79.1439075630252	79
Support services	3. Some high school, no diploma	86.7084148727984	87
Support services	4. High school diploma or equivalent	70.263659319052	70
Support services	5. Some college, no degree	52.7415191740413	53
Support services	6. Two year college degree	161.243375858685	161
Support services	7. Four year college degree	11.4499770887429	11
Support Services	8. Graduate or professional degree		1
Support services	9. Unknown / Suppressed Data	57.4030303030303	57
Assessment/svc strategies	All grades	9.76954470570615	10
Basic skills development	All grades	123.187479858202	123
Education and training	All grades	81.3965695542719	81
Employability skills	All grades	29.9187151852749	30
Job placement	All grades	5.81264444885621	6
Referrals	All grades	1.403281908488	1
Support services	All grades	64.7972816790717	65

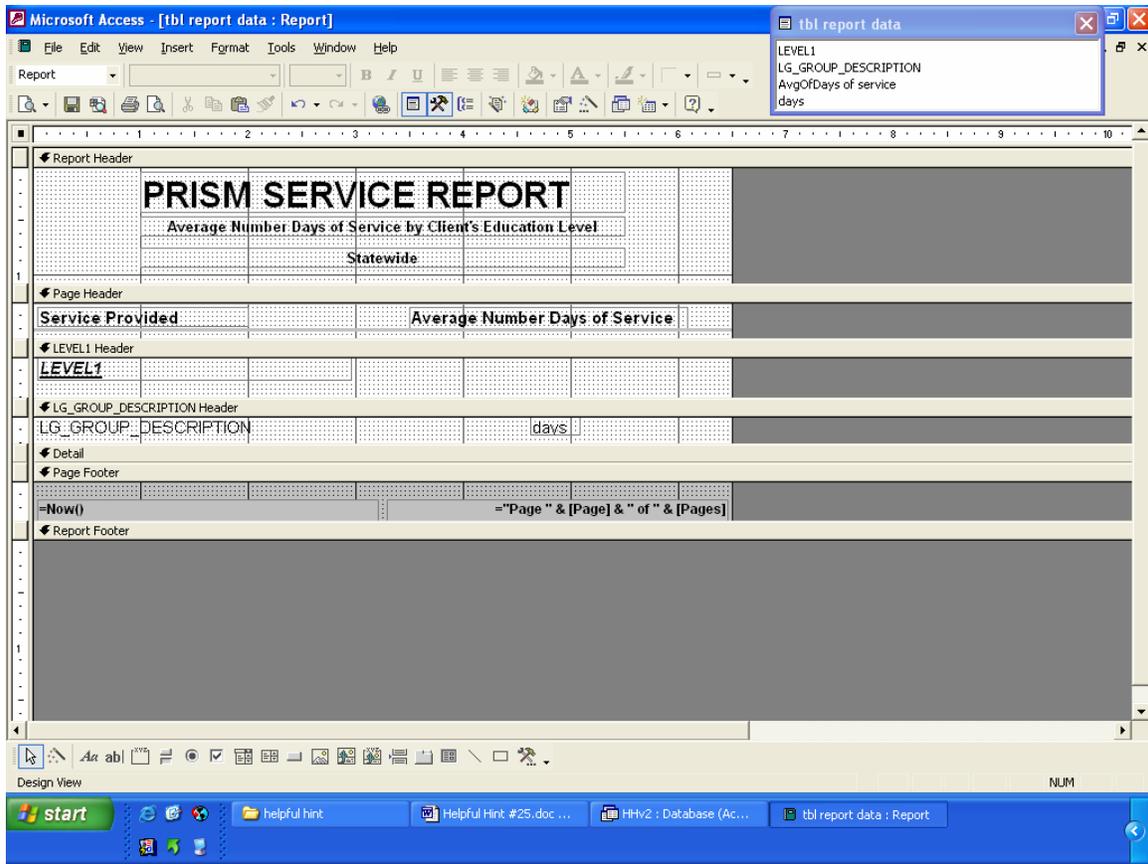
Record: 67 of 67

Datasheet View

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Save TBL REPORT DATA.

You can now make a report based on the above table. Here is the design for the report.



Here is the finished product.

Microsoft Access - [tbl report data]

File Edit View Tools Window Help

Type a question for help

80% Close Setup

PRISM SERVICE REPORT

Average Number Days of Service by Client's Education Level

Statewide

Service Provided	Average Number Days of Service
<u>Assessment/svc strategies</u>	
1. No formal education	7
2. Less than 9th grade education	79
3. Some high school, no diploma	26
4. High school diploma or equivalent	6
5. Some college, no degree	5
6. Two year college degree	5
7. Four year college degree	7
8. Graduate or professional degree	2
9. Unknown / Suppressed Data	7
All grades	10
<u>Basic skills development</u>	
2. Less than 9th grade education	108
3. Some high school, no diploma	132
4. High school diploma or equivalent	111
5. Some college, no degree	101
6. Two year college degree	147
7. Four year college degree	115
8. Graduate or professional degree	108
9. Unknown / Suppressed Data	147
All grades	123
<u>Education and training</u>	
1. No formal education	1
2. Less than 9th grade education	162

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Ready NUM

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