

Q1

All A... <

File Home Create External Data Database Tools Help Tell me what you want to do

Tables PLAYERS STATS TEAMS

Query1

PLAYER_ID	YEAR	TEAM	AB	HITS	HR	RBI
1	1993 SFG		539	181	46	123
1	1994 SFG		391	122	37	81
1	1995 SFG		506	149	33	104
1	1996 SFG		517	159	42	129
1	1997 SFG		532	155	40	101
1	1998 SFG		552	167	37	122
1	1999 SFG		355	93	34	83
1	2000 SFG		480	147	49	106
1	2001 SFG		476	156	73	137
1	2002 SFG		403	149	46	110
1	2003 SFG		390	133	45	90
1	2004 SFG		373	135	45	101
1	2005 SFG		42	12	5	10
1	2006 SFG		367	99	26	77
1	2007 SFG		340	94	28	66
4	1958 SFG		600	208	29	96
4	1959 SFG		575	180	34	104
4	1960 SFG		595	190	29	103
4	1961 SFG		572	176	40	123
4	1962 SFG		621	189	49	141
4	1963 SFG		596	187	38	103
4	1964 SFG		578	171	47	111
4	1965 SFG		558	177	52	112
4	1966 SFG		552	159	37	103
4	1967 SFG		486	128	22	70
4	1968 SFG		498	144	23	79
4	1969 SFG		403	114	13	58
4	1970 SFG		478	139	28	83
4	1971 SFG		417	113	18	61
4	1972 SFG		49	9	0	3
*						

Activate Windows
Go to Settings to activate Windows.

Record: 1 of 30 | No Filter | Search

Ready Num Lock SQL

Breaking news Jerome Powell f...

Search 2:25 PM 9/17/2025

All A... <

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

Tables PLAYERS STATS TEAMS

Query1

STATS

PLAYER_ID	YEAR	TEAM	AB	HITS	HR	RBI

Field: STATS.* Table: STATS Sort: Show: Criteria: or:

Team: STATS

Criteria: "SFG"

Add Tables

Tables Links Queries All

Search

PLAYERS STATS TEAMS

Activate Windows
Go to Settings to Add Selected Tables.

Ready Num Lock SQL

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Q2

Access

All A... < A

File Home Create External Data Database Tools Help Tell me what you want to do

Tables PLAYERS
STATS
TEAMS

Queries Query1
Query2

Query2

FIRST_NAME	LAST_NAME	BA	Year	HITS	AB
Barry	Bonds	0.223	1986	92	413
Barry	Bonds	0.261	1987	144	551
Barry	Bonds	0.283	1988	152	538
Barry	Bonds	0.248	1989	144	580
Barry	Bonds	0.301	1990	156	519
Barry	Bonds	0.292	1991	149	510
Barry	Bonds	0.311	1992	147	473
Barry	Bonds	0.336	1993	181	539
Barry	Bonds	0.312	1994	122	391
Barry	Bonds	0.294	1995	149	506
Barry	Bonds	0.308	1996	159	517
Barry	Bonds	0.291	1997	155	532
Barry	Bonds	0.303	1998	167	552
Barry	Bonds	0.262	1999	93	355
Barry	Bonds	0.306	2000	147	480
Barry	Bonds	0.328	2001	156	476
Barry	Bonds	0.370	2002	149	403
Barry	Bonds	0.341	2003	133	390
Barry	Bonds	0.362	2004	135	373
Barry	Bonds	0.286	2005	12	42
Barry	Bonds	0.270	2006	99	367
Barry	Bonds	0.276	2007	94	340
Hank	Aaron	0.280	1954	131	468
Hank	Aaron	0.314	1955	189	602
Hank	Aaron	0.328	1956	200	609
Hank	Aaron	0.322	1957	198	615
Hank	Aaron	0.326	1958	196	601
Hank	Aaron	0.355	1959	223	629
Hank	Aaron	0.292	1960	172	590
Hank	Aaron	0.327	1961	197	603
Hank	Aaron	0.323	1962	191	592
Hank	Aaron	0.319	1963	201	631
Hank	Aaron	0.328	1964	187	570
Hank	Aaron	0.318	1965	181	570

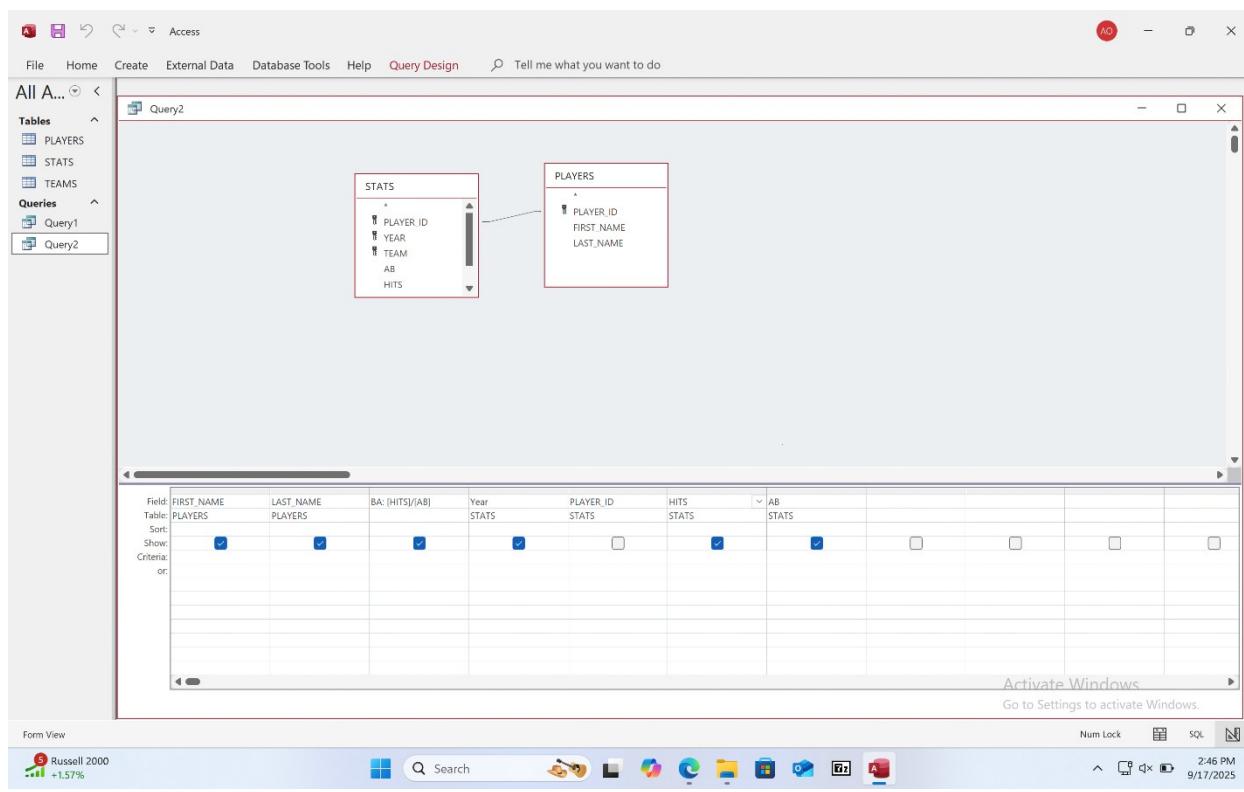
Activate Windows
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Record: 1 of 211 | No Filter | Search

DataSheet View Russell 2000 +1.57%

Search Num Lock SQL

2:47 PM 9/17/2025



Q3

Access - Omar_Ali_lab2_Q3

File Home Create External Data Database Tools Help Tell me what you want to do

Views Clipboard Sort & Filter Records Find Window Text Formatting

All Access O... < PLAYER_ID YEAR TEAM AB HITS HR RBI Player

Tables ^ PLAYERS STATS TEAMS Queries ^ Omar_Ali_Lab2_Q1 Omar_Ali_Lab2_Q2 Omar_Ali_Lab2_Q3 Omar_Ali_Lab2_Q4 Omar_Ali_Lab2_Q5 Omar_Ali_Lab2_Q6 Q7a_Years Omar_Ali_Lab2_Q7 Q8_totals Omar.ali.lab2.Q8

PLAYER_ID	YEAR	TEAM	AB	HITS	HR	RBI	Player
1	1986 PIT		413	92	16	48	Bonds, #
1	1987 PIT		551	144	25	59	Bonds, #
1	1988 PIT		538	152	24	58	Bonds, #
1	1989 PIT		580	144	19	58	Bonds, #
1	1990 PIT		519	156	33	114	Bonds, #
1	1991 PIT		510	149	25	116	Bonds, #
1	1992 PIT		473	147	34	103	Bonds, #
1	1993 SFG		539	181	46	123	Bonds, #
1	1994 SFG		391	122	37	81	Bonds, #
1	1995 SFG		506	149	33	104	Bonds, #
1	1996 SFG		517	159	42	129	Bonds, #
1	1997 SFG		532	155	40	101	Bonds, #
1	1998 SFG		552	167	37	122	Bonds, #
1	1999 SFG		355	93	34	83	Bonds, #
1	2000 SFG		480	147	49	106	Bonds, #
1	2001 SFG		476	156	73	137	Bonds, #
1	2002 SFG		403	149	46	110	Bonds, #
1	2003 SFG		390	133	45	90	Bonds, #
1	2004 SFG		373	135	45	101	Bonds, #
1	2005 SFG		42	12	5	10	Bonds, #
1	2006 SFG		367	99	26	77	Bonds, #
1	2007 SFG		340	94	28	66	Bonds, #
2	1954 MLN		468	131	13	69	Aaron, Hank
2	1955 MLN		602	189	27	106	Aaron, Hank
2	1956 MLN		609	200	26	92	Aaron, Hank
2	1957 MLN		615	198	44	132	Aaron, Hank
2	1958 MLN		601	196	30	95	Aaron, Hank
2	1959 MLN		629	223	39	123	Aaron, Hank
2	1960 MLN		590	172	40	126	Aaron, Hank
2	1961 MLN		603	197	34	120	Aaron, Hank
2	1962 MLN		592	191	45	128	Aaron, Hank

Activate Windows Go to Settings to activate Windows.

Datasheet View Num Lock SQL

86°F Sunny Search 5:07 PM 9/17/2025

Access - Omar_Ali_lab2_Q3

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

View Run Results Select Make Table Append Update Crosstab Delete Query Type Add Tables Insert Rows Insert Columns Pass-Through Data Definition Add Tables Delete Rows Delete Columns Return: All Totals Parameters Table Names

All Access O... < PLAYERS STATS

Tables ^ PLAYERS STATS TEAMS Queries ^ Omar_Ali_Lab2_Q1 Omar_Ali_Lab2_Q2 Omar_Ali_Lab2_Q3 Omar_Ali_Lab2_Q4 Omar_Ali_Lab2_Q5 Omar_Ali_Lab2_Q6 Q7a_Years Omar_Ali_Lab2_Q7 Q8_totals Omar.ali.lab2.Q8

Add Tables Tables Links Queries All

Search PLAYERS STATS TEAMS

Field: STATISTICS.* Table: STATS Sort: Show: Criteria: or:

Activate Windows Go to Settings to activate Windows.

Form View Num Lock SQL

86°F Sunny Search 5:08 PM 9/17/2025

Q4

Query4 - Access

The screenshot shows the Microsoft Access application window titled "Query4 - Access". The ribbon tabs visible are Home, Create, External Data, Database Tools, and Help. The Home tab is selected, displaying various toolbar icons for operations like Cut, Copy, Paste, Filter, Sort, Refresh, Find, and Text Formatting. On the left, the navigation pane shows tables like PLAYERS, STATS, and TEAMS, and queries like Query1 through Query5. The main area displays a data grid with columns: LAST_NAME, FIRST_NAME, TEAM, and Seasons. The data includes records for Aaron, Bonds, Griffey, Killebrew, Mays, McGwire, Palmeiro, Robinson, Ruth, Sosa, and Sammy. The grid has a blue header row and a yellow selection bar highlighting the first row. The status bar at the bottom indicates "Record: 1 of 31" and "Activate Windows Go to Settings to activate Windows". The taskbar at the bottom shows the Windows Start button, a search bar, and pinned icons for File Explorer, Edge, Mail, and others.

LAST_NAME	FIRST_NAME	TEAM	Seasons
Aaron	Hank	ATL	9
Aaron	Hank	MIL	2
Bonds	#	PIT	7
Bonds	#	SFG	15
Griffey	Ken	CHW	1
Griffey	Ken	CIN	9
Griffey	Ken	SEA	11
Killebrew	Harmo	KCR	1
Killebrew	Harmo	MIN	14
Killebrew	Harmon	WSH	7
Mays	Willie	NYG	6
Mays	Willie	NYM	2
Mays	Willie	SFG	15
McGwire	Mark	OAK	12
McGwire	Mark	STL	5
Palmeiro	Rafael	BAL	7
Palmeiro	Rafael	CHC	3
Palmeiro	Rafael	TEX	10
Robinson	Frank	BAL	6
Robinson	Frank	CAL	2
Robinson	Frank	CIN	10
Robinson	Frank	CLE	3
Robinson	Frank	LAD	1
Ruth	Babe	BOS	6
Ruth	Babe	BSN	1
Ruth	Babe	NYY	15
Sosa	Sammy	BAL	1
Sosa	Sammy	CHC	13
Sosa	Sammy	CHW	3
Sosa	Sammy	TEX	2

Query4 - Access

The screenshot shows the Microsoft Access application window titled "Query4 - Access" in "Query Design" mode. The ribbon tabs visible are File, Home, Create, External Data, Database Tools, Help, and Query Design. The Query Design tab is selected, displaying various toolbar icons for operations like Union, Pass-Through, Data Definition, Insert Rows, Insert Columns, Delete Rows, Delete Columns, Add Tables, Builder, Totals, Parameters, and Table Names. On the left, the navigation pane shows tables like PLAYERS, STATS, and TEAMS, and queries like Query1 through Query5. The main area displays the query builder interface with two tables selected: PLAYERS and STATS. The PLAYERS table has fields: PLAYER_ID, FIRST_NAME, and LAST_NAME. The STATS table has fields: PLAYER_ID, YEAR, TEAM, AB, and HITS. Below the tables, the query grid shows the following setup:

Field:	LAST_NAME	FIRST_NAME	TEAM	Seasons: Count(*)
Table:	PLAYERS	PLAYERS	STATS	
Total:	Group By	Group By	Group By	Expression
Sort:	Ascending	Ascending	Ascending	
Show:				
Criteria:	or:			

The status bar at the bottom indicates "Record: 1 of 31" and "Activate Windows Go to Settings to activate Windows". The taskbar at the bottom shows the Windows Start button, a search bar, and pinned icons for File Explorer, Edge, Mail, and others.

Q5

Query5 - Access

File Home Create External Data Database Tools Help Tell me what you want to do

Views Clipboard Sort & Filter Records Find Window Text Formatting

All A... < LAST_NAME - FIRST_NAME - RookieYear - RookieHR -

Tables ^ PLAYERS STATS TEAMS Queries ^ Query1 Query2 Query3 Query4 Query5

LAST_NAME	FIRST_NAME	RookieYear	RookieHR
Robinson	Frank	1956	38
Mays	Willie	1951	20
Griffey	Ken	1989	16
Bonds	#	1986	16
Aaron	Hank	1954	13
Sosa	Sammy	1989	4
Palmeiro	Rafael	1986	3
McGwire	Mark	1986	3
Ruth	Babe	1914	0
Killebrew	Harmon	1954	0

Activate Windows Go to Settings to activate Windows.

Record: 1 of 10 | No Filter | Search

Datasheet View Num Lock SQL 3:57 PM 9/17/2025

Query5 - Access

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

View Run Results

Tables ^ PLAYERS STATS TEAMS Queries ^ Query1 Query2 Query3 Query4 Query5

Query Type: Select Table

Query Setup: Insert Rows Insert Columns Delete Rows Delete Columns Add Tables Builder Return: All

Show/Hide: Totals Parameters Table Names

Add Tables: Tables Links Queries All

Search: Query1 Query2 Query3 Query4 Query5

Form View

Activate Windows Go to Settings to Add Selected Tables.

Num Lock SQL 3:58 PM 9/17/2025

Q6

The screenshot shows the Microsoft Access application window titled "Query6 - Access". The ribbon is visible at the top with tabs like File, Home, Create, External Data, Database Tools, and Help. The Home tab is selected. On the left, the navigation pane shows tables: PLAYERS, STATS, TEAMS, and queries: Query1, Query2, Query3, Query4, and Query5. Query5 is currently selected. The main area displays a grid of data with two rows. The first row has the "Name" column highlighted in yellow and contains the values "Mays, Willie" and "Ruth, Babe". The second row is standard black text. The status bar at the bottom indicates "Record: 1 of 2". A tooltip "Activate Windows Go to Settings to activate Windows" is visible near the bottom right. The taskbar at the bottom shows various pinned icons.

The screenshot shows the Microsoft Access application window titled "Access". The ribbon is visible at the top with tabs like File, Home, Create, External Data, Database Tools, Help, and Query Design. The Query Design tab is selected. On the left, the navigation pane shows tables: PLAYERS, STATS, TEAMS, and queries: Omar_Ali_Lab2_Q1, Omar_Ali_Lab2_Q2, Omar_Ali_Lab2_Q3, Omar_Ali_Lab2_Q4, Omar_Ali_Lab2_Q5, and Omar_Ali_Lab2_Q6. Omar_Ali_Lab2_Q6 is currently selected. The main area displays the query design grid. Two tables are joined: PLAYERS (PLAYER_ID, FIRST_NAME, LAST_NAME) and STATS (YEAR, TEAM, AB, HITS). The query grid shows a single row with the criteria "Like 'NY*'". The status bar at the bottom indicates "Record: 1 of 2". A tooltip "Activate Windows Go to Settings to activate Windows" is visible near the bottom right. The taskbar at the bottom shows various pinned icons.

Q7

All Access O... < Omar_Ali_lab2_Q7

Tables: PLAYERS, STATS, TEAMS
Queries: Omar_Ali_Lab2_Q1, Omar_Ali_Lab2_Q2, Omar_Ali_Lab2_Q3, Omar_Ali_Lab2_Q4, Omar_Ali_Lab2_Q5, Omar_Ali_Lab2_Q6, Q7a_Years, Omar_Ali_Lab2_Q7

LAST_NAME	FIRST_NAME	Seasons
Aaron	Hank	23
Bonds	#	22
Griffey	Ken	20
Killebrew	Harmon	22
Mays	Willie	22
McGwire	Mark	16
Palmeiro	Rafael	20
Robinson	Frank	21
Ruth	Babe	22
Sosa	Sammy	18

Activate Windows
Go to settings to activate Windows.

Record: 1 of 10 | No Filter | Search

Ready

85°F Mostly sunny

Search

Num Lock SQL

4:50 PM 9/17/2025

This screenshot shows the Microsoft Access interface with a query result window titled "Omar_Ali_lab2_Q7". The result grid displays data from three tables: PLAYERS, STATS, and TEAMS. The columns are LAST_NAME, FIRST_NAME, and Seasons. The data includes records for Aaron (Hank), Bonds (#), Griffey (Ken), Killebrew (Harmon), Mays (Willie), McGwire (Mark), Palmeiro (Rafael), Robinson (Frank), Ruth (Babe), and Sosa (Sammy). The toolbar above the grid contains various buttons for filtering, sorting, and modifying data. The status bar at the bottom shows the date and time as 4:50 PM on 9/17/2025.

All Access O... < Omar_Ali_lab2_Q7

Tables: PLAYERS, STATS, TEAMS
Queries: Omar_Ali_Lab2_Q1, Omar_Ali_Lab2_Q2, Omar_Ali_Lab2_Q3, Omar_Ali_Lab2_Q4, Omar_Ali_Lab2_Q5, Omar_Ali_Lab2_Q6, Q7a_Years, Omar_Ali_Lab2_Q7

Query Design

Results

Query Type: Select

Query Setup: Totals, Parameters, Table Names

Add Tables

Search: Q7a_Years

Activate Windows
Go to settings to activate Windows.

Add Selected Tables

Ready

85°F Mostly sunny

Search

Num Lock SQL

4:50 PM 9/17/2025

This screenshot shows the Microsoft Access interface in "Query Design" mode. A query window titled "Omar_Ali_lab2_Q7" is open, showing a relationship between the "PLAYERS" table and the "Q7a_Years" table. The "PLAYERS" table has fields: PLAYER_ID, FIRST_NAME, and LAST_NAME. The "Q7a_Years" table has fields: PLAYER_ID and YEAR. Below the query design, a results grid is displayed with columns: Field, Table, Total, Group By, Sort, Show, Criteria, and others. The status bar at the bottom shows the date and time as 4:50 PM on 9/17/2025.

Q8

Screenshot of Microsoft Access Datasheet View showing a query result.

The query results are displayed in a table with columns: LAST_NAME, FIRST_NAME, and BatAvg. The data shows the last name, first name, and batting average for various players. Babe Ruth has the highest batting average at 0.342.

LAST_NAME	FIRST_NAME	BatAvg
Ruth	Babe	0.342
Aaron	Hank	0.305
Mays	Willie	0.302
Bonds	#	0.298
Robinson	Frank	0.294
Palmeiro	Rafael	0.288
Griffey	Ken	0.288
Sosa	Sammy	0.273
McGwire	Mark	0.263
Killebrew	Harmon	0.256

Record: 14 of 10 | No filter | Search | Activate Windows Go to Settings to activate Windows.

Screenshot of Microsoft Access Query Design View showing a query setup.

The query is designed to select data from the PLAYERS and Q8_totals tables. The resulting query is:

```
SELECT LAST_NAME, FIRST_NAME, BatAvg: Round([Q8_Totals].[SumOfHITS]/[Q8_Totals].[SumOfAB],3)
```

The results are displayed in a table with columns: LAST_NAME, FIRST_NAME, and BatAvg. The data shows the last name, first name, and batting average for various players. Babe Ruth has the highest batting average at 0.342.

LAST_NAME	FIRST_NAME	BatAvg
Ruth	Babe	0.342
Aaron	Hank	0.305
Mays	Willie	0.302
Bonds	#	0.298
Robinson	Frank	0.294
Palmeiro	Rafael	0.288
Griffey	Ken	0.288
Sosa	Sammy	0.273
McGwire	Mark	0.263
Killebrew	Harmon	0.256

Activate Windows Go to Settings to Add Selected Tables.

Q9

Microsoft Access - Omar_Ali_lab2_Q9 - Access

File Home Create External Data Database Tools Help Tell me what you want to do

Views Clipboard Sort & Filter Records Find Window Text Formatting

All Access O... < LAST_NAME - FIRST_NAME - Seasons

Tables Queries

	LAST_NAME	FIRST_NAME	Seasons
Bonds	#	Babe	13
Aaron	Hank		12
Palmeiro	Rafael		11
Mays	Willie		10
Sosa	Sammy		9
Killebrew	Harmon		8
Griffey	Ken		7
McGwire	Mark		6
Robinson	Frank		

Activate Windows Go to Settings to activate Windows.

Record: 14 of 10 No filter Search

Datasheet View Num Lock SQL

86°F Sunny 5:14 PM 9/17/2025

Microsoft Access - Omar_Ali_lab2_Q9 - Access

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

Results Run Select Make Table Append Update Crosstab Delete Data Definition Insert Rows Insert Columns Pass-Through Add Tables Builder Return: All Totals Parameters Table Names

All Access O... <

Tables Queries

Add Tables Tables Links Queries All

Search PLAYERS STATS TEAMS

Activate Windows Go to Settings to activate Windows.

Add Selected Tables

Form View Num Lock SQL

86°F Sunny 5:14 PM 9/17/2025

Q10

Access Datasheet View:

File Home Create External Data Database Tools Help Tell me what you want to do

Views Clipboard Sort & Filter Records Find Window Text Formatting

All Access Objects < LAST_NAME - FIRST_NAME - SpanYears

LAST_NAME	FIRST_NAME	SpanYears
Aaron	Hank	16
McGwire	Mark	12
Ruth	Babe	12
Killebrew	Harmon	11
Mays	Willie	11
Bonds	#	11
Griffey	Ken	7
Sosa	Sammy	7
Palmeiro	Rafael	4
Robinson	Frank	0

Activate Windows Go to Settings to activate Windows.

Record: 1 of 10 No Filter Search

85°F Sunny Num Lock SQL 5:34 PM 9/17/2025

Access Query Design View:

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

View Run Select Results

Query Type: Union

Add Tables Builder

Query Setup: Return: All

All Access Objects <

Tables: PLAYERS, STATS, TEAMS

Queries: Omar_Ali_Lab2_Q1, Omar_Ali_Lab2_Q2, Omar_Ali_Lab2_Q3, Omar_Ali_Lab2_Q4, Omar_Ali_Lab2_Q5, Omar_Ali_Lab2_Q6, Q7a_Years, Omar_Ali_Lab2_Q7, Q8_totals, Omar_ali_Lab2_Q8, Q9a_YearRBI, Omar_Ali_Lab2_Q9, Q10_40HR_MinMax, Omar_Ali_Lab2_Q10

Results:

PLAYER_ID, FIRST_NAME, LAST_NAME

Q10_40HR_MinMax

PLAYER_ID, Min40Yr, Max40Yr

Field Table Sort Criteria

LAST_NAME > FIRST_NAME > SpanYears: [Q10_40HR_MinMax]

Table Show Criteria

LAST_NAME > FIRST_NAME > Descending

Activate Windows Go to Settings to Add Selected Tables.

85°F Sunny Num Lock SQL 5:34 PM 9/17/2025