

FileEditViewNavigateCodeRefactorToolsWindowHelp

default - HW11_query [810_startup.db] - DataGrip

Database Consoles > 810_startup.db > HW11_query [810_startup.db]

Database

console [810_startup.db] x HW11_query [810_startup.db] x

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Tx: Auto

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main console_1

1: Database

810_startup.db 1

schemas 1

main

grades

StudentCWID TEXT

Course TEXT

Grade TEXT

InstructorCWID TEXT

instructors

CWID TEXT

Name TEXT

Dept TEXT

instructors_pk (CWID)

sqlite_autoindex_instructors_1

majors

Major TEXT

Required/Elective TEXT

Course TEXT

sqlite_master

students

CWID TEXT

Name TEXT

Major TEXT

students_pk (CWID)

sqlite_autoindex_students_1

collations 3

lecture_810 1

1

2

/* What is the name of the instructor with CWID='98763'? */

select Name from instructors where CWID='98763';

Services: Database x

Tx

810_startup.db

default 47 ms

console 45 ms

console 45 ms

console_1 43 ms

HW11_query 43 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

Output main.instructors x

1 row

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DB

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Tab-se...d (TSV)

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Name

1 Rowland, J

6: TODO

8: Services

9+ Event Log

lecture_810: Synchronization successful (368 ms) (yesterday 10:39 PM)

48 chars 2:1 CRLF UTF-8 4 spaces

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FileEditViewNavigateCodeRefactorToolsWindowHelp

default - HW11_query [810_startup.db] - DataGrip

Database Consoles > 810_startup.db > HW11_query [810_startup.db]

Database

console [810_startup.db] × HW11_query [810_startup.db] ×

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main ▾console_1 ▾

1

2

3

/* What is the total number of instructors by department? */

select Dept, count(*) as [INSTRUCTOR PER DEPARTMENT] from instructors group by Dept;

1: Database

810_startup.db 1

schemas 1

main

grades

StudentCWID TEXT

Course TEXT

Grade TEXT

InstructorCWID TEXT

instructors

CWID TEXT

Name TEXT

Dept TEXT

instructors_pk (CWID)

sqlite_autoindex_instructors_1

majors

Major TEXT

Required/Elective TEXT

Course TEXT

sqlite_master

students

CWID TEXT

Name TEXT

Major TEXT

students_pk (CWID)

sqlite_autoindex_students_1

collations 3

lecture_810 1

Services: Database ×

Tx

810_startup.db

default 47 ms

console 45 ms

console 45 ms

console_1 26 ms

HW11_query 26 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

Output Result 5 ×

2 rows ▾

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Tab-se...d (TSV) ▾⬇️⬆️⚙️

	Dept ▾	"INSTRUCTOR PER DEPARTMENT" ▾
1	CS	1
2	SFEN	2

★ Favorites

6: TODO8: Services

9+ Event Log

2 rows retrieved starting from 1 in 20 ms (execution: 8 ms, fetching: 12 ms)

84 chars2:1CRLFUTF-84 spaces🔍🛑

Database Consoles > 810_startup.db > HW11_query [810_startup.db]

Database

console [810_startup.db] × HW11_query [810_startup.db] ×

810_startup.db 1

schemas 1

main

grades

StudentCWID TEXT

Course TEXT

Grade TEXT

InstructorCWID TEXT

instructors

CWID TEXT

Name TEXT

Dept TEXT

instructors_pk (CWID)

sqlite_autoindex_instructors

majors

Major TEXT

Required/Elective TEXT

Course TEXT

sqlite_master

students

CWID TEXT

Name TEXT

Major TEXT

1

2

3

4

/* What is the most frequent grade across all students and courses? */

select Grade, count(*) as [STUDENT PER GRADE] from grades group by Grade

order by Grade LIMIT 1;

main

console_1

Services: Database ×

Tx

810_startup.db

default 47 ms

console 54 ms

console 54 ms

console_1 29 ms

HW11_query 29 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

Output

Result 18 ×

1 row

Grade

"STUDENT PER GRADE"

1 A 4

6: TODO

8: Services

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Database Consoles > 810_startup.db > HW11_query [810_startup.db]

Database

console [810_startup.db] x HW11_query [810_startup.db] x

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Tx: Auto

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main console_1

1: Database

810_startup.db 1

schemas 1

main

grades

StudentCWID TEXT

Course TEXT

Grade TEXT

InstructorCWID TEXT

instructors

CWID TEXT

Name TEXT

Dept TEXT

instructors_pk (CWID)

sqlite_autoindex_instructors

majors

Major TEXT

Required/Elective TEXT

Course TEXT

sqlite_master

students

CWID TEXT

Name TEXT

Major TEXT

2: Files

1

/* Show the student's name, CWID, and major along with the courses and grades each student received in that

course for all grades. */

select s.Name, s.CWID, s.Major, g.Course, g.Grade

from students s join grades g on s.CWID=g.StudentCWID;

2

3

4

5

Services: Database x

Tx

810_startup.db

default 47 ms

console 45 ms

console 45 ms

console_1 37 ms

HW11_query 37 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

Output Result 7 x

9 rows

Tab-se...d (TSV)

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	Name	CWID	Major	Course	Grade
1	Jobs, S	10103	SFEN	SSW 810	A-
2	Jobs, S	10103	SFEN	CS 501	B
3	Bezos, J	10115	SFEN	SSW 810	A
4	Bezos, J	10115	SFEN	CS 546	F
5	Musk, E	10183	SFEN	SSW 555	A
6	Musk, E	10183	SFEN	SSW 810	A
7	Gates, B	11714	CS	SSW 810	B-
8	Gates, B	11714	CS	CS 546	A
9	Gates, B	11714	CS	CS 570	A-

6: TODO

8: Services

Event Log 9+

lecture_810: Synchronization successful (368 ms) (yesterday 10:39 PM)

104 chars, 1 line break 3:1 CRLF UTF-8 4 spaces

FileEditViewNavigateCodeRefactorToolsWindowHelp

default - HW11_query [810_startup.db] - DataGrip

Database Consoles > 810_startup.db > HW11_query [810_startup.db]

Database

console [810_startup.db] × HW11_query [810_startup.db] ×

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Tx: Auto

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main

console_1

1

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4

5

/* Show the names of students who have grades for 'SSW 810'. */

select s.Name, s.CWID, s.Major, g.Course, g.Grade

from students s join grades g on s.CWID=g.StudentCWID

where g.Course='SSW 810';

✓

Services: Database ×

Tx

810_startup.db

default 47 ms

console 45 ms

console_1 30 ms

HW11_query 30 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

▶ Output

Result 8 ×

⏪ < 4 rows > ⏩

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Tab-se...d (TSV)

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	Name	CWID	Major	Course	Grade
1	Jobs, S	10103	SFEN	SSW 810	A-
2	Bezos, J	10115	SFEN	SSW 810	A
3	Musk, E	10183	SFEN	SSW 810	A
4	Gates, B	11714	CS	SSW 810	B-

6: TODO

8: Services

9+ Event Log

lecture_810: Synchronization successful (368 ms) (yesterday 10:39 PM)

128 chars, 2 line breaks2:1CRLFUTF-84 spaces🔒👤

FileEditViewNavigateCodeRefactorToolsWindowHelp

default - HW11_query [810_startup.db] - DataGrip

Database Consoles810_startup.dbHW11_query [810_startup.db]

Database

console [810_startup.db]HW11_query [810_startup.db]

810_startup.db

schemas

main

grades

StudentCWID TEXT

Course TEXT

Grade TEXT

InstructorCWID TEXT

instructors

CWID TEXT

Name TEXT

Dept TEXT

instructors_pk (CWID)

sqlite_autoindex_instructors

majors

Major TEXT

Required/Elective TEXT

Course TEXT

sqlite_master

students

CWID TEXT

Name TEXT

Major TEXT

1

2

3

4

5

6

/*Recreate the Instructor summary table from HW10, including the Instructor's CWID, name, department, course taught, and the number of students who took the course */

select i.CWID, i.Name, i.Dept, g.Course, count(*) as students

from instructors i join grades g on i.CWID = g.InstructorCWID

group by i.Name, i.Dept, g.Course

main

console_1

ServicesDatabase

810_startup.db

default 47 ms

console 45 ms

console_1 35 ms

HW11_query 35 ms

lecture_810

default 124 ms

console 71 ms

try_lecture 71 ms

OutputResult 10

6 rows

Tab-separated (TSV)

	CWID	Name	Dept	Course	students
1	98764	Cohen, R	SFEN	CS 546	1
2	98762	Hawking, S	CS	CS 501	1
3	98762	Hawking, S	CS	CS 546	1
4	98762	Hawking, S	CS	CS 570	1
5	98763	Rowland, J	SFEN	SSW 555	1
6	98763	Rowland, J	SFEN	SSW 810	4

6: TODO8: Services

lecture_810: Synchronization successful (368 ms) (yesterday 10:39 PM)

157 chars, 2 line breaks3:1CRLFUTF-84 spaces

9+ Event Log