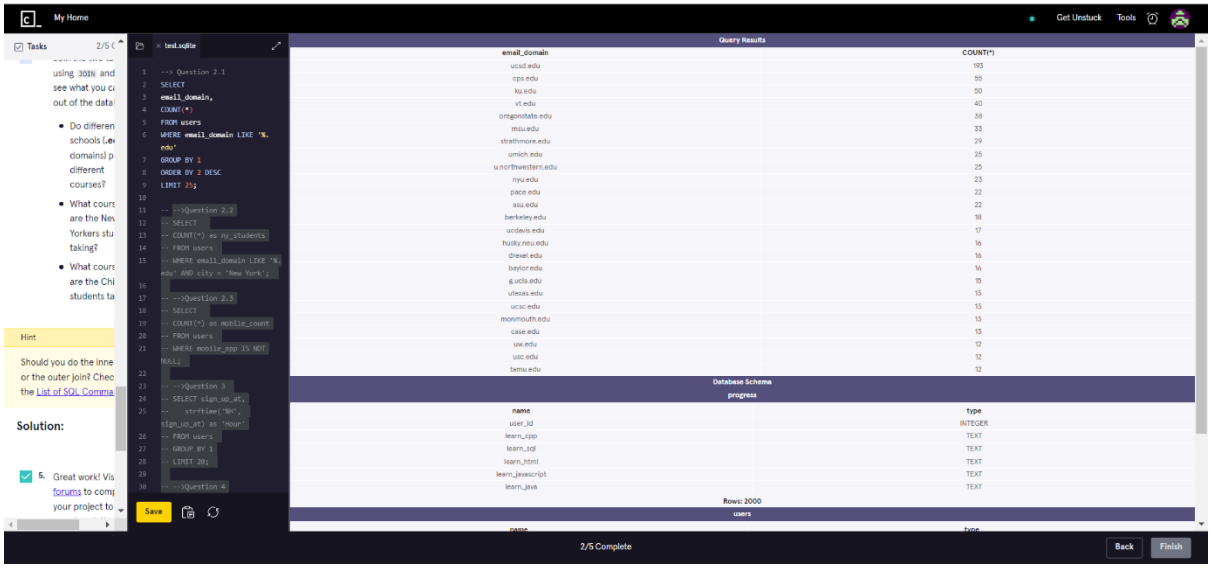
DETAILED INFORMATION OF SQL ASSESSMENT. -By: B.PRAMEELA

--> Question 2.1 What are the Top 25 schools (.edu domains)?

Ans:

```
SELECT
email_domain,
COUNT(*)
FROM users
WHERE email_domain LIKE '%.edu'
GROUP BY 1
ORDER BY 2 DESC
LIMIT 25;
```



-->Question 2.2 How many .edu learners are located in New York?

Ans:

```
SELECT
COUNT(*) as ny_students
FROM users
WHERE email_domain LIKE '%.edu' AND city = 'New York';
```

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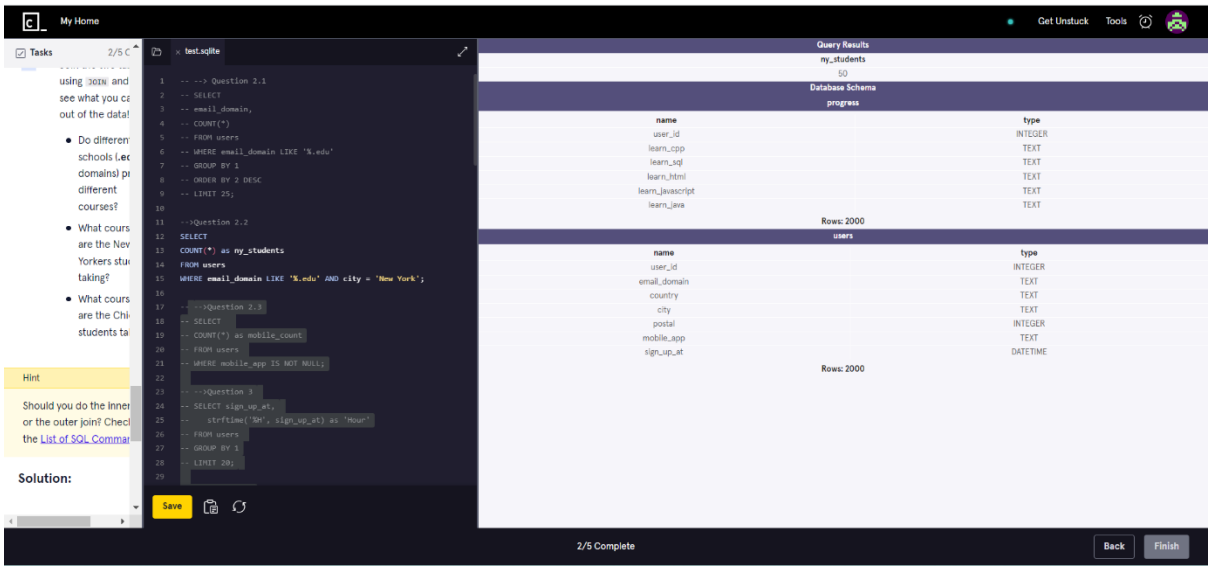
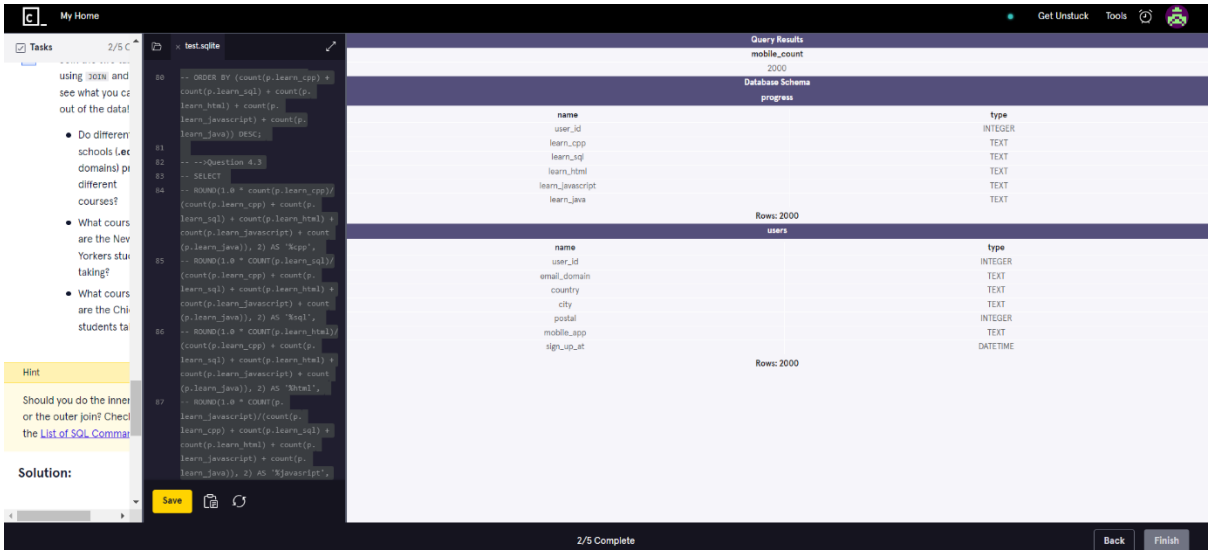


-->Question 2.3 The mobile_app column contains either mobile-user or NULL. How many of these Codecademy learners are using the mobile app?

Ans:

```
SELECT
COUNT(*) as mobile_count
FROM users
WHERE mobile_app IS NOT NULL;
```



-->Question 3

The data type of the sign_up_at column is DATETIME. It is for storing a date/time value in the database.

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Notice that the values are formatted like:

2015-01-01 18:33:52

So the format is:

YYYY-MM-DD HH:MM:SS

SQLite comes with a strftime() function - a very powerful function that allows you to return a formatted date.

It takes two arguments:strftime(format, column)

Let's test this function out:

SELECT sign_up_at,

strftime('%S', sign_up_at)

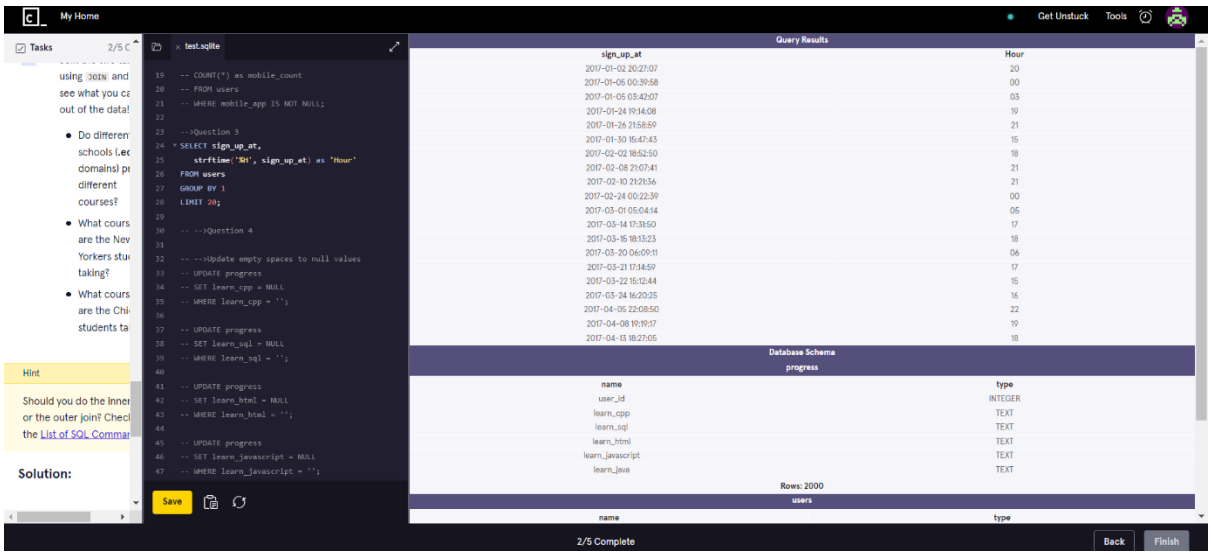
FROM users

GROUP BY 1

LIMIT 20;Now, using this function, query for the sign up counts for each hour.

Ans:

```
SELECT sign_up_at,
  strftime('%H', sign_up_at) as 'Hour'
FROM users
GROUP BY 1
LIMIT 20;
```



-->Question 4 Join the two tables using JOIN and then see what you can dig out of the data!

Ans:

-->Update empty spaces to null values

```
UPDATE progress
SET learn_cpp = NULL
WHERE learn_cpp = '';

UPDATE progress
SET learn_sql = NULL
WHERE learn_sql = '';

UPDATE progress
SET learn_html = NULL
WHERE learn_html = '';

UPDATE progress
SET learn_javascript = NULL
WHERE learn_javascript = '';

UPDATE progress
SET learn_java = NULL
WHERE learn_java = '';
```

-->Question 4.1 Do different schools (.edu domains) prefer different courses?

Ans:

```
SELECT
email_domain,
ROUND(1.0 * count(p.learn_cpp)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%cpp',
ROUND(1.0 * COUNT(p.learn_sql)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%sql',
ROUND(1.0 * COUNT(p.learn_html)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%html',
```

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ROUND(1.0 * COUNT(p.learn_javascript)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%javasript',

ROUND(1.0 * COUNT(p.learn_java)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%java'

FROM users u

JOIN progress p

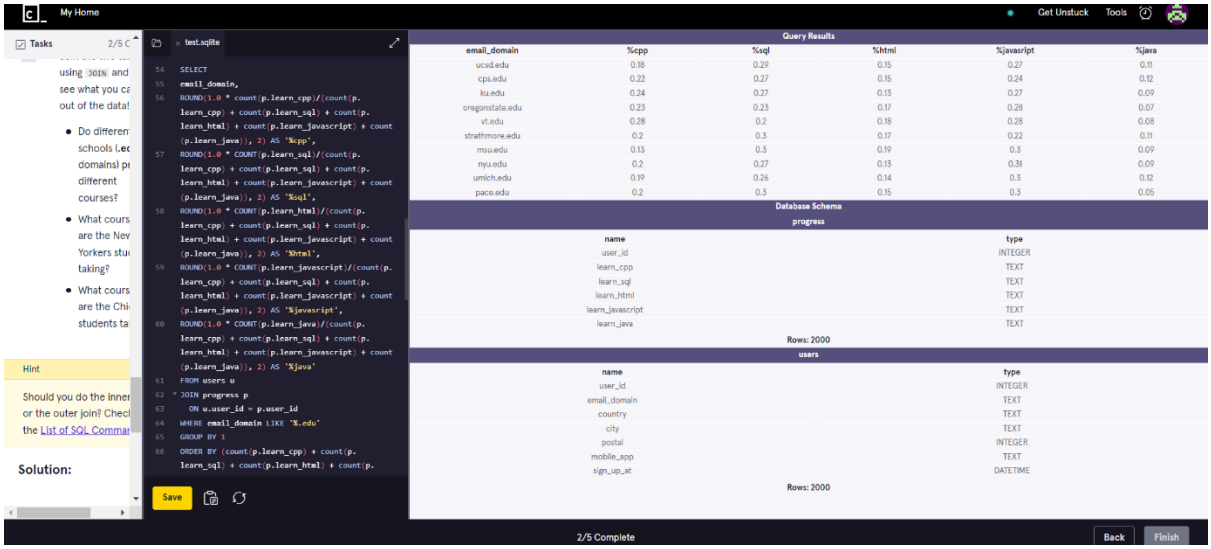
ON u.user_id = p.user_id

WHERE email_domain LIKE '%.edu'

GROUP BY 1

ORDER BY (count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)) DESC

LIMIT 10;



--Question 4.2 What courses are the New Yorkers students taking?

Ans:

SELECT

ROUND(1.0 * count(p.learn_cpp)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%cpp',

ROUND(1.0 * COUNT(p.learn_sql)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%sql',

ROUND(1.0 * COUNT(p.learn_html)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%html',

ROUND(1.0 * COUNT(p.learn_javascript)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%javasript',

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ROUND(1.0 * COUNT(p.learn_java)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%java'

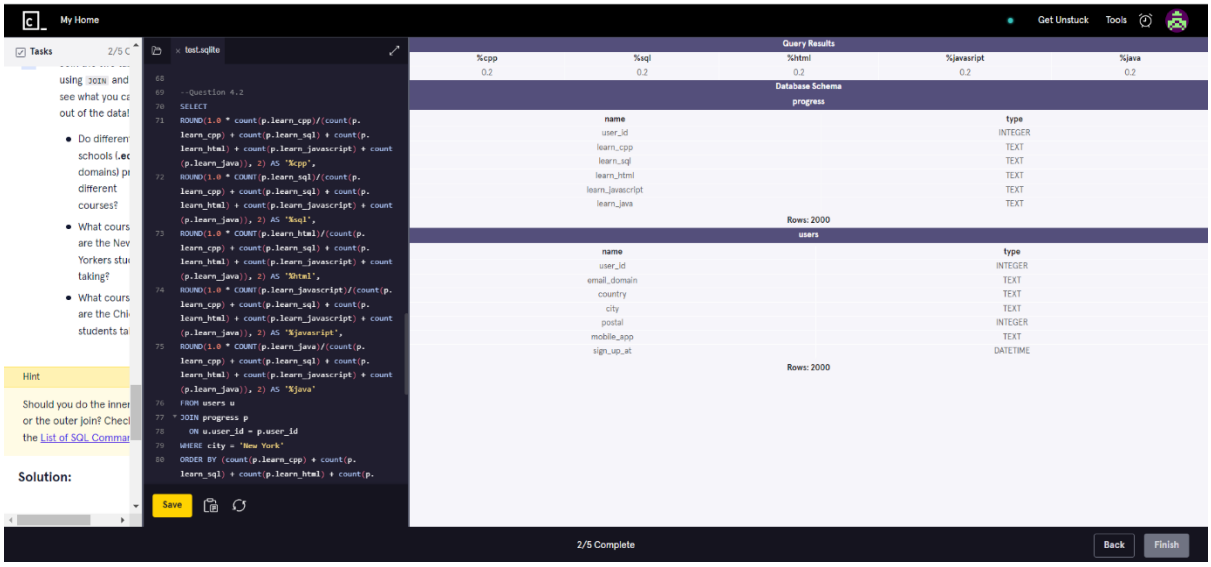
FROM users u

JOIN progress p

ON u.user_id = p.user_id

WHERE city = 'New York'

ORDER BY (count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)) DESC;



-->Question 4.3 What courses are the Chicago students taking?

Ans:

SELECT

ROUND(1.0 * count(p.learn_cpp)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%cpp',

ROUND(1.0 * COUNT(p.learn_sql)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%sql',

ROUND(1.0 * COUNT(p.learn_html)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%html',

ROUND(1.0 * COUNT(p.learn_javascript)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%javasript',

ROUND(1.0 * COUNT(p.learn_java)/(count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)), 2) AS '%java'

FROM users u

JOIN progress p

ON u.user_id = p.user_id

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WHERE city = 'New York'

ORDER BY (count(p.learn_cpp) + count(p.learn_sql) + count(p.learn_html) + count(p.learn_javascript) + count(p.learn_java)) DESC;