```sql
SELECT *
FROM 'billionaires.csv';
```

Run the app to see the outputs
Press the run button in the top right corner

```sql
/*
-- regular expression
SELECT * FROM 'billionaires.csv'
WHERE country = 'France'; --case sensitive
*/

/*
-- countries starting with the letter F
SELECT * FROM 'billionaires.csv'
WHERE country ILIKE 'F%'; -- equivalent to REGEXP '^f' as in the video
*/

/*
-- countries ending with the letter A
SELECT * FROM 'billionaires.csv'
WHERE country ILIKE '%A'; -- equivalent to REGEXP 'A$' as in the video
*/

/*
-- countries starting with the letter F or C
SELECT * FROM 'billionaires.csv'
WHERE country ILIKE 'F%' OR country ILIKE 'C%'; -- equivalent to REGEXP '^f|^c' as in the video
*/

-- countries starting with the letter C then have H or O
SELECT * FROM 'billionaires.csv'
WHERE country ILIKE 'Ch%' OR country ILIKE 'Co%'; -- equivalent to REGEXP '^c[ho]' as in the video
```

Run the app to see the outputs
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```sql
-- categorisation by high or low with a threshold - IF
SELECT personName, finalWorth,
IF (finalWorth < 10000, 'low', 'high') AS category -- to make the column name cleaner
FROM 'billionaires.csv';
```

Run the app to see the outputs
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```sql
-- three categories - CASE
SELECT personName, finalWorth,
CASE
    WHEN finalWorth < 10000 THEN 'low'
    WHEN finalWorth BETWEEN 10000 AND 30000 THEN 'medium'
    ELSE 'high'
END
FROM 'billionaires.csv';
```
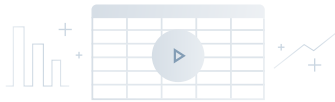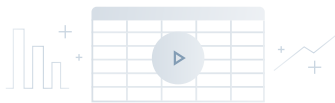
Run the app to see the outputs
Press the run button in the top right corner

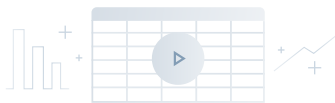SUBQUERY: a query inside another query

```sql
-- Subquery

/*
-- show average net worth
SELECT AVG(finalWorth)
FROM 'billionaires.csv';
*/

SELECT personname, finalWorth,
--nested query
    (SELECT AVG(finalWorth) FROM 'billionaires.csv')
FROM 'billionaires.csv';
```

Run the app to see the outputs
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```sql
-- bring in another csv or table
SELECT * FROM 'geography.csv'
```

Run the app to see the outputs
Press the run button in the top right corner

```sql
-- combine two tables / csv files - joins

/*
--inner join
SELECT * FROM 'billionaires.csv'
INNER JOIN 'geography.csv'
ON billionaires.country = geography.Country_Name;
*/

/*
-- bit cleaner
--inner join
SELECT country, Continent, Language FROM 'billionaires.csv'
INNER JOIN 'geography.csv'
ON billionaires.country = geography.Country_Name;
*/

/*
--left join
SELECT Distinct(country), Continent, Language FROM 'billionaires.csv' -- remove duplicates
LEFT JOIN 'geography.csv'
ON billionaires.country = geography.Country_Name;
*/

/*
--right join
SELECT Distinct(country), Continent, Language FROM 'billionaires.csv' -- remove duplicates
RIGHT JOIN 'geography.csv'
ON billionaires.country = geography.Country_Name;
*/

--right join - observe and test more
SELECT Distinct(country), Country_Name, Continent, Language FROM 'billionaires.csv' -- remove duplicates
RIGHT JOIN 'geography.csv'
ON billionaires.country = geography.Country_Name;
```

Run the app to see the outputs
Press the run button in the top right corner