

code cademy/PRO INTENSIVE Learn SQL from Scratch

Aggregate Functions

Calculations performed on multiple rows

SELECT COUNT(*)

FROM fake_apps;

SELECT SUM(downloads)

FROM fake_apps;

SELECT MAX(downloads)

FROM fake_apps;

SELECT MIN(downloads)

FROM fake_apps;

SELECT AVG(price)

FROM fake_apps;

SELECT category, SUM (downloads)

FROM fake_apps

GROUP BY category;

SELECT category, SUM(downloads)

FROM fake_apps

GROUP BY 1;

SELECT category, SUM(downloads)

FROM fake_apps

GROUP BY category

HAVING SUM(downloads) > 5;

COUNT()

Calculate how many rows are in the fake_apps table

SUM()

Calculate the sum of all the values in the downloads

columr

MAX()

Return the highest value in the downloads column

MIN()

Return the lowest value in the downloads column

AVG()

Calculate the average value of the price column

GROUP BY

Calculate the total number of downloads for each

category

GROUP BY

The reference number 1 refers to the first selected

column (category)

HAVING

WHERE can not be used with aggregate functions

HAVING is used to filter groups



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```
SELECT category, SUM(downloads)
FROM fake_apps
WHERE price = 0
GROUP BY 1
HAVING SUM(downloads) > 2
ORDER BY 2 DESC
LIMIT 5;
```

Review

- 1. SELECT as many columns as you want
- 2.FROM indicates which table
- 3.WHERE filters based on individual rows
- 4.GROUP BY tells you how to bucket your data
- 5.HAVING filters based on your aggregates
- 6.ORDER BY sorts the query
- 7.LIMIT reduces the number of results