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SQL is the most important skill for a data scientist. Yes. It’s true. Relational Database Management is an important part of Data Science and SQL is the most-used language in data science, according to the 10,000+ data professionals who responded to StackOverflow's 2020 survey. Follow along and check the 23 most common and advanced SQL Interview Questions Data Scientists and Machine Learning Engineers must be prepared before their next ML or Data Science Interview.

*Q1*:

What is *Normalisation*?

**Junior**

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Answer

**Normalization** is basically to design a database schema such that **duplicate and redundant data is avoided**. If the same information is repeated in multiple places in the database, there is the risk that it is updated in one place but not the other, leading to data corruption.

There is a number of normalization levels from 1. normal form through 5. normal form. Each normal form describes how to get rid of some specific problem.

By having a database with normalization errors, you open the risk of getting invalid or corrupt data into the database. Since data "lives forever" it is very hard to get rid of corrupt data when first it has entered the database.

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/246701/what-is-normalisation-or-normalization)

*Q2*:

What is the difference between *Data Definition Language (DDL)* and *Data Manipulation Language (DML)*?

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Answer

* **Data definition language (DDL)** commands are the commands which are used to define the database. **CREATE**, **ALTER**, **DROP** and **TRUNCATE** are some common DDL commands.
* **Data manipulation language (DML)** commands are commands which are used for manipulation or modification of data. **INSERT**, **UPDATE** and **DELETE** are some common DML commands.

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*Source:* [en.wikibooks.org](https://en.wikibooks.org/wiki/MySQL/Language/Definitions:_what_are_DDL,_DML_and_DQL%3F)

*Q3*:

Define ACID Properties

**Mid**

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Answer

* **Atomicity**: It ensures all-or-none rule for database modifications.
* **Consistency**: Data values are consistent across the database.
* **Isolation**: Two transactions are said to be independent of one another.
* **Durability**: Data is not lost even at the time of server failure.

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*Source:* [github.com/chetansomani](https://github.com/chetansomani/SQL-Interview-Questions)

*Q4*:

Duplicate Emails Challenge

**Mid**

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Problem

Write a SQL query to find all duplicate emails in a table named Person.

Table: Customers.

+----+---------+

| Id | Email |

+----+---------+

| 1 | a@b.com |

| 2 | c@d.com |

| 3 | a@b.com |

+----+---------+

For example, your query should return the following for the above table:

+---------+

| Email |

+---------+

| a@b.com |

+---------+

**Note**: All emails are in lowercase.

Answer

Since all emails are in lowercase we can simply group by email and print those that have a count > 1.

SELECT EMAIL

FROM PERSON

GROUP BY EMAIL

HAVING COUNT(\*)>1

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*Source:* [gdcoder.com](https://gdcoder.com/how-to-nail-a-data-scientist-sql-interview-includes-sql-code/)

*Q5*:

Find *duplicate* values in a SQL table

**Mid**

Problem

We have a table

ID NAME EMAIL

1 John asd@asd.com

2 Sam asd@asd.com

3 Tom asd@asd.com

4 Bob bob@asd.com

5 Tom asd@asd.com

I want is to get duplicates with the same email and name.

Answer

Simply group on both of the columns:

SELECT

name, email, COUNT(\*) as CountOf

FROM

users

GROUP BY

name, email

HAVING

COUNT(\*) > 1

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/2594829/finding-duplicate-values-in-a-sql-table)



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*Q6*:

What are the difference between *Clustered* and a *Non-clustered* index?

**Mid**

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Answer

* With a **Clustered** index the rows are stored **physically** on the disk in the same order as the index. Therefore, there can be only one clustered index. A clustered index means you are telling the database to store close values actually close to one another on the disk.
* With a **Non Clustered** index there is a second list that has **pointers** to the physical rows. You can have many non clustered indices, although each new index will increase the time it takes to write new records.
* It is generally *faster to read* from a **clustered** index if you want to get back all the columns. You do not have to go first to the index and then to the table.
* *Writing* to a table with a **clustered** index can be *slower*, if there is a need to rearrange the data.

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/1251636/what-do-clustered-and-non-clustered-index-actually-mean)

*Q7*:

What is Denormalization?

**Mid**

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Answer

It is the process of improving the performance of the database by *adding* redundant data.

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*Source:* [github.com/dhaval1406](https://github.com/dhaval1406/SQL)

*Q8*:

What is *Collation*?

**Mid**

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Answer

In database systems, Collation specifies how data is sorted and compared in a database. Collation provides the sorting rules, case, and accent sensitivity properties for the data in the database.

For example, when you run a query using the ORDER BY clause, collation determines whether or not uppercase letters and lowercase letters are treated the same.

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*Source:* [database.guide](https://database.guide/what-is-collation-in-databases/)

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*Q9*:

What is the difference between INNER JOIN, OUTER JOIN, FULL OUTER JOIN?

**Mid**

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Answer

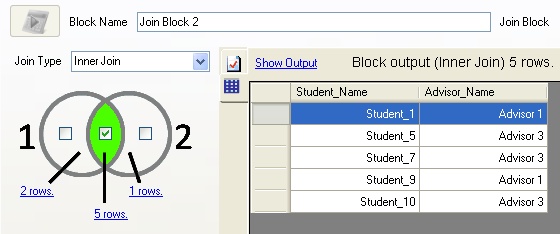
An **inner join** retrieve the matched rows only.

Whereas an **outer join** retrieve the matched rows from one table and all rows in other table ....the result depends on which one you are using:

* **Left**: Matched rows in the right table and all rows in the left table
* **Right**: Matched rows in the left table and all rows in the right table or
* **Full**: All rows in all tables. It doesn't matter if there is a match or not

**Inner Join**

Retrieve the matched rows only, that is, A intersect B.



SELECT \*

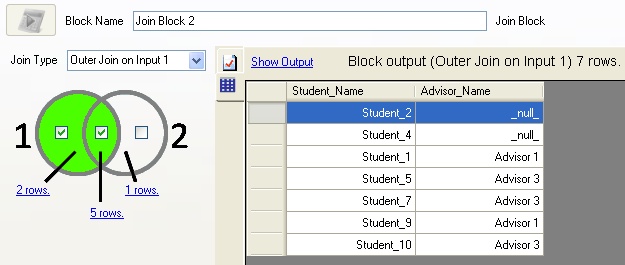
FROM dbo.Students S

INNER JOIN dbo.Advisors A

ON S.Advisor\_ID = A.Advisor\_ID

**Left Outer Join**

Select all records from the first table, and any records in the second table that match the joined keys.



SELECT \*

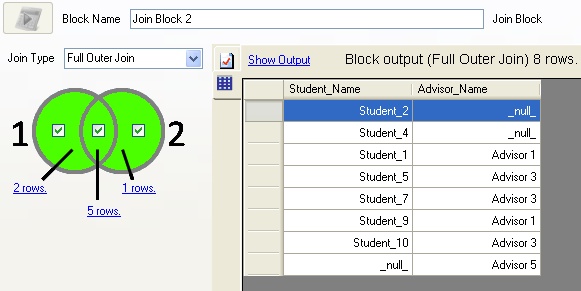
FROM dbo.Students S

LEFT JOIN dbo.Advisors A

ON S.Advisor\_ID = A.Advisor\_ID

**Full Outer Join**

Select all records from the second table, and any records in the first table that match the joined keys.



SELECT \*

FROM dbo.Students S

FULL JOIN dbo.Advisors A

ON S.Advisor\_ID = A.Advisor\_ID

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/38549/what-is-the-difference-between-inner-join-and-outer-join)



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*Q10*:

What is the difference between JOIN and UNION?

**Mid**

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Answer

UNION puts lines from queries after each other, while JOIN makes a *cartesian* product and subsets it -- completely different operations. Trivial example of UNION:

mysql> SELECT 23 AS bah

-> UNION

-> SELECT 45 AS bah;

+-----+

| bah |

+-----+

| 23 |

| 45 |

+-----+

2 rows in set (0.00 sec)

similary trivial example of JOIN:

mysql> SELECT \* FROM

-> (SELECT 23 AS bah) AS foo

-> JOIN

-> (SELECT 45 AS bah) AS bar

-> ON (33=33);

+-----+-----+

| foo | bar |

+-----+-----+

| 23 | 45 |

+-----+-----+

1 row in set (0.01 sec)

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/905379/what-is-the-difference-between-join-and-union)

*Q11*:

What is the difference between UNION and UNION ALL?

**Mid**

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Answer

UNION removes duplicate records (where all columns in the results are the same), UNION ALL does not.

There is a performance hit when using UNION instead of UNION ALL, since the database server must do additional work to remove the duplicate rows, but usually you do not want the duplicates (especially when developing reports).

**UNION Example:**

SELECT 'foo' AS bar UNION SELECT 'foo' AS bar

**Result:**

+-----+

| bar |

+-----+

| foo |

+-----+

1 row in set (0.00 sec)

**UNION ALL example:**

SELECT 'foo' AS bar UNION ALL SELECT 'foo' AS bar

**Result:**

+-----+

| bar |

+-----+

| foo |

| foo |

+-----+

2 rows in set (0.00 sec)

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*Source:* [stackoverflow.com](https://stackoverflow.com/questions/49925/what-is-the-difference-between-union-and-union-all)

*Q12*:

Delete *duplicate* values in a SQL table

**Senior**

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*Q13*:

Department Highest Salary Challenge

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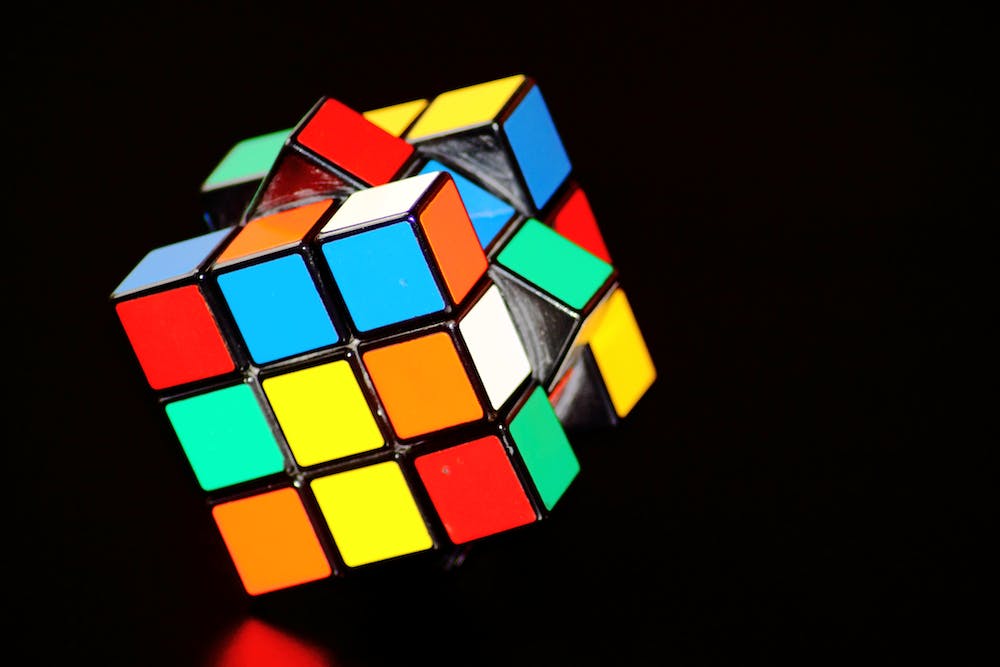
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*Q14*:

Explain the difference between *Exclusive Lock* and *Update Lock*

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*Q15*:

How can we *transpose* a table using SQL (changing rows to column or vice-versa)?

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*Q16*:

How does *B-trees Index* work?

**Senior**

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How does TRUNCATE and DELETE operations effect *Identity*?

**Senior**

Answer

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*Q18*:

What is the *cost* of having a database *index*?

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*Q19*:

What is the difference among UNION, MINUS and INTERSECT?

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*Q20*:

What would happen *without* an Index?

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*Q21*:

How does database *Indexing* work?

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*Q22*:

Select first row in each GROUP BY group (greatest-n-per-group problem)?

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*Q23*:

What is the difference between *B-Tree*, *R-Tree* and *Hash* indexing?

**Expert**

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Julia was built for scientific computing, machine learning, data mining, large-scale linear algebra, distributed and parallel computing. It is a flexible dynamic language with performance comparable to traditional statically-typed languages. Julia is...

[27 Keras Interview Questions (ANSWERED) for ML Engineers and Data Scientists](https://www.mlstack.cafe/blog/keras-interview-questions)

Keras is a deep learning API written in Python. Keras sits at a higher abstraction level than Tensorflow. Specifically, Keras makes it easy to implement neural networks(NN) by providing succinct APIs for things like Layers, Models, Optimizers, Metric...

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[35 Advanced MATLAB Interview Questions (ANSWERED) For Your Data Science Career](https://www.mlstack.cafe/blog/matlab-interview-questions)

Learning data science in MATLAB serves as an excellent foundation for your research and data science project. MATLAB’s ease of use and similarity to standard linear algebra notation can be helpful to learn the fundamental mathematical concepts every ...

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[27 Reinforcement Learning Interview Questions (ANSWERED) for Machine Learning Engineers](https://www.mlstack.cafe/blog/reinforcement-learning-interview-questions)

Reinforcement Learning is most prominent and is widely used nowadays, especially in the robotics field. Unlike Supervised and Unsupervised learning, it learns from bad experiences and then tries to adjust itself according to the environment or task t...

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[101 Data Science Interview Questions (ANSWERED, PDF) To Get Your Next ML Job](https://www.mlstack.cafe/blog/data-science-interview-questions)

Job opportunities are booming for data scientists with a wide range of areas to specialise in, including sectors such as finance, health and medicine, general sciences, cybersecurity, defence, and agriculture. Currently, Australia’s median data scien...

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[54 Data Analyst Interview Questions (ANSWERED with PDF) to Crack Your ML & DS Interview](https://www.mlstack.cafe/blog/data-analyst-interview-questions)

Skilled data analysts are some of the most sought-after professionals in the world. The average Data Analyst salary in the United States is $79,616 as of, but the salary range typically falls between $69,946 and $88,877. Follow along and learn 54 mos...

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[50 Data Scientist Interview Questions (ANSWERED with PDF) To Crack Next ML Interview](https://www.mlstack.cafe/blog/data-scientist-interview-questions)

Companies need data scientists. They need people who are able to take large amounts of data and make it usable. The national average salary for a Data Scientist in the United States is $117,212. Data Scientist roles in Australia were typically advert...

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[30 TensorFlow Interview Questions (ANSWERED) for ML Devs & Data Science](https://www.mlstack.cafe/blog/tensorflow-interview-questions)

TensorFlow is both (I) an API for Machine Learning algorithms with a focus on deep learning and (II) a system that implements this API. TensorFlow is the most popular tech skill of the last three years, exponentially increasing between 2016 and 2019 ...

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