

# ELMASRI NAVATHE EDITION SOLUTIONS

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**What is the difference between RDBMS and DBMS?** The main difference between a DBMS and an RDBMS is that a DBMS is a software application used to store, retrieve, and manage data in a database, while an RDBMS is a type of DBMS that stores data in a relational database.

**What is data in DBMS?** Data is the raw material that can be processed for any computing machine. For example ? Employee name, Product name, Name of the student, Marks of the student, Mobile number, Image etc. Information. Information is the data that has been converted into more useful or intelligent form. For example: Report card sheet.

**Is DBMS and SQL same or different?** Database Management Systems and SQL are two of the most important and widely used tools on the internet today. You use a Database Management System (DBMS) to store the data you collect from various sources, and SQL to manipulate and access the particular data you want in an efficient way.

**Is SQL a RDBMS?** RDBMS stands for Relational Database Management System. RDBMS is the basis for SQL, and for all modern database systems such as MS SQL Server, IBM DB2, Oracle, MySQL, and Microsoft Access.

**Is Excel a database?** Microsoft Excel is a spreadsheet application like Google Sheets and Lotus 123; MS Excel is not a database program. While there are similarities between a database and a spreadsheet, they are not the same thing.

**What are the 4 types of data in database?**

**What are the four types of DBMS?** The four types of database management systems are: Hierarchical DBMS, Network DBMS, Relational DBMS (RDBMS), and Object-oriented DBMS (OODBMS). Each type employs different structures and principles to organise, store and manage data.

**What is the easiest database to use?** Ease of Learning – MySQL is one of the easiest databases where querying is done using SQL. It also has a vast plethora of documentation associated with it.

**What is the most used database software?** Oracle is the most widely used database management system written in assembly languages C, C++, and Java. It is also considered the most popular database because of its cost-optimizing and high-performing features. It supports SQL (Structured Query Language) to interact with the database.

**Is DBMS easy to learn?** Prerequisites. Although DBMS is easy to understand, it is recommended to have fundamental computer knowledge that includes concepts of computer architecture, storage and hardware. Knowledge of data structures and algorithms and programming will be an added benefit.

**Which command is used to undo the last transaction?** The ROLLBACK command in SQL is used to undo changes that have been made within a transaction before it has been committed. It allows you to revert to the last committed state in case an error occurs during a transaction.

**How to define primary key?** A primary key, also called a primary keyword, is a column in a relational database table that's distinctive for each record. It's a unique identifier, such as a driver's license number, telephone number with area code or vehicle identification number (VIN). A relational database must have only one primary key.

**What does > mean in SQL?** > is Standard SQL and stands for not equal or !=

**What are examples of RDBMS?** Examples of relational databases Some of the most well-known RDBMSs include MySQL, PostgreSQL, MariaDB, Microsoft SQL Server, and Oracle Database.

**What is the difference between RDBMS and non DBMS?** The non-relational database, or NoSQL database, stores data. However, unlike the relational database, there are no tables, rows, primary keys or foreign keys. Instead, the non-relational database uses a storage model optimized for specific requirements of the type of data being stored.

**Is MongoDB a DBMS or RDBMS?** What is MongoDB? MongoDB (link resides outside ibm.com) is an open source, nonrelational database management system (DBMS) that uses flexible documents instead of tables and rows to process and store various forms of data.

**What is the difference between RDBMS and distributed DBMS?** DBMS does not support distributed database. RDBMS supports distributed database. It stores data in either a navigational or hierarchical form. It uses a tabular structure where the headers are the column names, and the rows contain corresponding values.

## **STM32 Cortex-M3: A Comprehensive Q&A for Beginners**

### **What is the STM32 Cortex-M3 microcontroller?**

The STM32 Cortex-M3 is a 32-bit microcontroller from STMicroelectronics based on the ARM Cortex-M3 core. It offers high performance, low power consumption, and a wide range of peripherals. The M3 processor features an ARMv7-M architecture with a single-cycle multiply-accumulate (MAC) unit and a fast interrupt latency.

### **Where can I find free resources for STM32 Cortex-M3 development?**

Numerous online resources provide free tutorials, sample code, and development tools for the STM32 Cortex-M3. These include STMicroelectronics' official website, community forums, and open-source libraries such as CMSIS and HAL. Additionally, online retailers offer affordable development boards equipped with the STM32 Cortex-M3 microcontroller.

### **How do I program the STM32 Cortex-M3?**

Programming the STM32 Cortex-M3 requires an integrated development environment (IDE) such as Keil uVision or IAR Embedded Workbench. These IDEs

provide a user-friendly interface, built-in compilers, and debugging tools. You can also use open-source software like Eclipse and GCC to develop for the Cortex-M3.

### **What are the key features of the STM32 Cortex-M3?**

The STM32 Cortex-M3 microcontroller excels in several key areas:

- High-speed performance: Cortex-M3 core with clock speeds up to 72 MHz
- Low power consumption: Dynamic voltage scaling and multiple power modes
- Extensive peripherals: GPIOs, timers, ADCs, DACs, and communication interfaces (UART, SPI, I<sup>2</sup>C)
- Flexible memory options: Flash, RAM, and external memory support

### **What are some real-world applications of the STM32 Cortex-M3?**

The STM32 Cortex-M3 is widely used in various industries and applications, including:

- Industrial control: Motor control, sensor data acquisition, and data logging
- Consumer electronics: Wearables, smart devices, and home automation
- Medical devices: Patient monitoring, drug delivery, and diagnostic instruments
- Robotics: Actuator control, data processing, and communication

**Is Fiat Scudo same as Peugeot Expert?** As Fiat are now part of the Stellantis group who also own Peugeot, Citroen and Vauxhall, the Scudo / Ulysse are essentially rebadged versions of the Peugeot Expert and Traveller, the Citroen Dispatch and Space Tourer, and the Vauxhall Vivaro.

**What is the towing capacity of a 2005 Fiat Scudo?** Read all the reviews [here](#). The towing capacity of the Fiat Scudo supports up to 1950kg. This is a braked figure, while the maximum load for any vehicle without using trailer brakes is 750kg, if rated to tow that much in the first place.

### **Where is the paint code for Fiat Scudo?**

**What is the towing capacity of the Fiat Scudo van?** The towing capacity of the Fiat Scudo Van can support up to 1950kg, while this may alter, depending on the model/trim option. We would always recommend checking the VIN plate on your specific vehicle, as this will determine the accurate towing capacity for your Scudo Van.

**Is Fiat Scudo a car or van?** The comfort that you were looking for The new Scudo van is a commercial vehicle that offers all the essentials for any business trip: is versatile, functional and agile.

**What replaced the Fiat Scudo?** In July 2016, the Fiat Scudo was replaced by a second generation of the Fiat Talento, a rebadged Renault Trafic. From the 2019 model year, the Jumpy has been rebadged as the Opel/Vauxhall Vivaro, replacing the previous Vivaro model, which, from 1997 to 2018, had been based on the Renault Trafic.

**How big is a Fiat Scudo?**

**What is the payload of a Fiat E Scudo?** Despite the compactness of the vehicles exterior, with a height of only 190 cm, the available volume is incredibly large, with up to 6,6 m3 of loading capacity and up to 1.4 ton of payload.

**How many seats are in the Fiat Scudo?** Dashboard. Interior space with 9 seats.

**Where is the Fiat Scudo made?** Fiat said it will continue Scudo production at Hordain, France, where the battery electric e-Scudo version is manufactured for all markets. Mark Noble, Luton Plant director, said: "It's great news for Luton Plant to start manufacturing the Fiat Professional Scudo.

**What is paint code 176 fiat?** Fiat Rosso Passionale Code 176/A Basecoat Spray Paint Used in thousands of bodyshops worldwide, this Automotive quality car paint is UV, rust and dust resistant. This solvent Basecoat paint will dry to a matt finish.

**Is paint code on VIN?** Your car's VIN gives you a lot of information about your vehicle, but it won't give you your paint code. So, where can you go to find automotive paint color? Most vehicles have paint codes listed inside the driver's door jamb.

**What van can tow 10000?** Chevrolet Express/GMC Savana: The Chevrolet Express and its counterpart, the GMC Savana, have long been trusted workhorses in the van segment. With available towing packages and powerful engine configurations, these vans can easily handle towing loads of up to 10,000 pounds.

**What is the load volume of the Fiat Scudo?** The Fiat Scudo has a minimum overall load volume of 5.3m<sup>3</sup> which can increase to 5.8m<sup>3</sup> with the addition of the folding hatch.

**What van can tow 3500 lbs?**

**Is Fiat Scudo same as Peugeot?** Using the same body and engines as the Vauxhall Vivaro, as well as the Peugeot Expert, Citroen Dispatch and Toyota Proace, the Fiat Scudo is part of a range of vans that is among the most prolific across Europe and beyond.

**How much weight can a Fiat Scudo carry?** New Fiat Scudo - Dimensions | Fiat Professional. Compact on the outside, big on the inside. Despite the compactness of the vehicles exterior, with a height of only 190 cm, the available volume is incredibly large, with up to 6,6 m<sup>3</sup> of loading capacity and up to 1.4 ton of payload.

**What is the gas mileage on a Fiat Scudo?** ^Fuel economy and CO<sub>2</sub> results for the Fiat Professional Scudo ICE range in mpg (l/100km) (combined): 46.3 (6) – 35.3 (8).

**Is a Fiat Scudo a good van?** If you're in need of a mid-sized van that offers car-like driving characteristics and decent tech and equipment, but you don't need maximum carrying or payload capacity, then the Fiat Scudo is worth considering.

**What van is the same as Fiat Scudo?** Until a few years ago, the Vauxhall Vivaro shared much of its running gear and most of its tech with the Renault Trafic. But now Vauxhall is part of Stellantis and the Vivaro is essentially the same as the Citroen Dispatch, Peugeot Expert, Toyota Proace and Fiat Scudo.

**Why did they stop making Fiat?** The brand had a reputation for poor quality, and Fiat pulled out of North America in 1983. It wasn't until 2009, when a bankrupt Chrysler needed help and Fiat took a 20 percent stake in the struggling American automaker, that plans were made to bring the Fiat brand back across the ocean.

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**What is the biggest Fiat van?**

**Which is the largest Fiat?**

**How big is a 2008 Fiat Scudo?**

**What is the range of the Fiat Scudo?** The new E-Scudo electric van offers a broad range of engines: up to 205 miles^ maximum range, a maximum speed of 80 mph, reduced charging times, and zero CO2 emissions whilst driving.

**What is payload weight limit?** A calculation determines payload based on a truck's gross vehicle weight rating (GVWR), a term used to describe the total weight a pickup's platform is designed to handle, including the weight of the vehicle itself. An easy way to determine a truck's payload capacity is to take its GVWR and subtract its curb weight.

**Does payload affect EV range?** While payload affects range, its impact is less drastic than cold weather, averaging an 8% reduction. Combined, cold weather and a full payload put together provide a critical baseline for e-LCV operators, as they can reduce range to almost 50% of the WLTP figure.

**What van is the same as Peugeot Expert?** While the Peugeot Expert and Citroën Dispatch share a common platform and are similar in many aspects, they are not the same. Both vehicles are part of the PSA Group's mid-size vans and share the same chassis and engine options. However, they differ in design, interior ergonomics, and some specific features.

**Are Fiat and Peugeot vans the same?** While the Fiat Ducato and the Peugeot Boxer share a similar platform, they are not entirely the same van.

**Is Peugeot Expert the same as Vivaro?** There are three sister models to the Expert - the Citroen Dispatch, Toyota Proace and Vauxhall Vivaro. All four use the PSA Group's EMP2 platform, which is also used in passenger cars such as the Peugeot 308, Vauxhall Grandland X and Citroen Grand C4 Spacetourer.

**Is Fiat part of Peugeot?** The auto company that some Americans may still refer to as Chrysler became part of a conglomerate called Stellantis NV (STLA), based in the

Netherlands, on Jan. 16, 2021. Fiat Chrysler Automobiles ("FCA") officially merged with PSA Group, owner of the Peugeot automobile brand, at that time.

**Is Toyota Proace same as Peugeot Expert?** That's because the Proace is mechanically identical to the Peugeot Expert, Citroen Dispatch and Vauxhall Vivaro which in theory means it's a medium-sized van battling for sales with the Volkswagen Transporter, Ford Transit Custom and Renault Trafic.

**Is Peugeot Expert bigger than partner?** Larger and heavier than the Partner, the Peugeot Expert typically falls into a slightly higher insurance group, from 10 upwards.

**Does the Toyota Proace have a Toyota engine?** The Toyota Proace is powered by engines made by Stellantis, owners of Citroen, Peugeot, Vauxhall and more. However, Toyota buyers have just two choices, a 1.5-litre unit with 100bhp or 120bhp, or a 2.0-litre engine with 120bhp or 174bhp, whereas customers of the Stellantis brands can choose between four options.

**What is the sister brand of FIAT?** Fiat Group currently produces vehicles under twelve brands: Abarth, Alfa Romeo, Chrysler, Dodge, Ferrari, Fiat, Fiat Professional, Jeep, Lancia, Maserati, Ram Trucks, and SRT.

**What is FIAT called now?**

**Are FIAT vans reliable?** FAQs. Is the Fiat Ducato reliable? The latest version of the Fiat Ducato was launched in 2021 and has a much better reputation for reliability than its predecessors, especially when linked to the 2.2-litre diesel engine. Older versions could suffer engine and gearbox issues that were extremely costly to fix.

**What is the best engine for the Peugeot Expert?** What's the best model/engine to choose? Based purely on the numbers, which are the reason that many will go for the Expert, the one to go for is the 120PS 2.0-litre diesel engine. All three lengths will offer a payload in excess of 1400kg, though.

**Is the Renault Trafic the same as the Nissan Primastar?** This van is technically identical to the Renault Trafic – Renault builds both in its factory in France. The Primastar has the advantage of a five-year warranty across the entire range but only with conditions. But Nissan's commercial vehicle network isn't as extensive as that of



Renault.

**Is Peugeot Expert reliable?** Commercial vans are a big part of Peugeot's history. Internationally renowned for reliability and durability since the launch of its first delivery van back in 1895, Peugeot knows a thing or two about designing hard-working commercial vehicles – like the Peugeot Expert Van.

**Who owns Peugeot now?** The current owner of Peugeot is Stellantis, the combined company of PSA Group and Fiat Chrysler Automobiles created on 16 January 2021. If you want to know more about the owners of Peugeot, then there's a separate article all about this new global automotive powerhouse, called Who is Stellantis? in our advice section.

**Who is the sister company of Peugeot?** The manufacturer of Peugeot, Citroën and DS Automobiles-branded cars and vans, 100% owned by PSA Group and formed from the combination of Automobiles Citroën and Automobiles Peugeot.

**Which country owns Fiat?** Although Fiat cars are increasing in popularity in the U.S., they are manufactured in Italy and were founded in Turin by a group of investors. Fiat is known as the largest car brand in Italy and continues to be successful for the style and design of their models.

**How many people get a 9 in GCSE physics?** The proportion of grade 9 results achieved by physics students, equivalent to a high A\* under the old GCSE system, rose to 17.2 per cent, compared to 16.4 per cent in 2020 and 12.5 per cent in 2019. You can find the full GCSE results tables by subject [here](#).

**How hard is it to get a 9 in GCSE physics?** Getting a 9 in GCSE Physics can be challenging, as it requires a strong understanding of the subject matter, good study habits, and effective exam technique. However, with dedication, hard work, and support from teachers and resources, it is possible to achieve a 9 in GCSE Physics.

**How can I get full marks in GCSE physics?**

**How to revise for AQA GCSE physics?**

**How rare is straight 9s in GCSE?** If we imagine a gCSE cohort of 500,000 candidates this would mean that just over 100 of them would achieve straight grade

9s.

**How many 9s do you need for Oxford?** Yes, your grades will need to really dazzle. GCSEs are seen as evidence of work ethic – and you need a really strong one of those to cope with studying at Oxford or Cambridge. Our guesstimate is that the average successful applicant has around eight 8/9 grade GCSEs under their belt.

**What is the hardest subject to get a 9 in GCSE?** Mathematics. GCSE Maths stands out as the most difficult GCSE subject that consistently challenges students, drawing on a broad range of problem-solving skills and deep understanding of complex concepts.

**Is a 7 in GCSE physics good?** What is Grade 7 in GCSE? If you achieve a grade 7 in your exam, then you will have the equivalent of a traditional A grade, one of the most coveted grades at this level. The grades above and their equivalent are listed below: 8 = Standard A\*

**What is the easiest GCSE to get 9?** What is the easiest GCSE to get a 9? Of course, what's "easy" for one student might be a monumental challenge for another. So this depends on your strengths and weaknesses. In terms of 2023 results though, Chemistry, Physics and Biology all have the highest percentage of students achieving 9-7 grades (around 45%).

**Is it possible to get 100% in GCSEs?** Having achieved 10 A\* grades (4 with a score of 100%), the author shares practical tips on revision and exam technique directly relating to current GCSE specifications, including specific subject advice.

**What is 70% at GCSE?** What is 70% in GCSE grades? A score of 70% will usually get you a grade 7 or 8 at GCSE, depending on the subject and your exam board's grade boundaries for that year.

**What is the average grade for GCSE physics?** Across the UK, a greater proportion of students achieved good passes in physics in 2024 compared to all GCSE subjects. A total of 90.3% of pupils achieved grade 4/C or higher in physics compared to 67.6% for all subjects.

**Is AQA physics hard?** A-Level Physics exams are known for their difficulty, including complex questions that involve multiple calculations and parts. Unlike

GCSE level exams, A-Level questions do not follow a set structure, which means students must be adept at adapting to a variety of question styles and complexities??.

**What percentage of AQA GCSE physics is maths?** For the combined sciences a minimum of 20% of marks will test mathematical skills (made up of a minimum of 10% in biology; 20% in chemistry; and 30% in physics).

**What is the most effective way to revise for GCSE?** Revising and revisiting concepts regularly is the most effective way of getting them stored into long-term memory, ready to be accessed in an exam. A revision timetable can really help to organise and plan workload. Start by marking key GCSE 2023 dates, such as mock and final exams.

**Am I guaranteed a place at Oxford if I got all 9s at GCSE?** No. GCSEs are a good guide to your likely performance at A level, so you would certainly be expected to do very well, but nothing is guaranteed. With GCSEs like that, you'd probably stand a very good chance of an interview, though lots of subjects also have Oxford-set exams/tests as well.

**Is a 9 bad in GCSE?** Grade 9 is the highest grade. Ofqual's GCSE grading diagrams outline the changes and also provide some useful guide for parents.

**Does Oxbridge differentiate between 8s and 9s?** When oxford release their admissions stats they don't differentiate between 8s and 9s and for the most competitive courses the average number of 8/9 grades is around 9. They release all of this data regularly via foi requests. Your daughter would be an excellent candidate! Oxbridge aren't interested in GCSE results.

**Can you get into Oxford with a 3.7 GPA?** Undergraduate qualifications If your graduate course at Oxford requires a 'first-class undergraduate degree with honours' in the UK system, you will usually need a bachelor's degree from a recognised university with an an overall grade of 85% ('A') or 'Excellent', or a GPA of 3.7 out of 4.0.

**What is the average IQ of Oxbridge students?** Judging by the official manual, the average score of Oxford undergrads on Raven's advanced progressive matrices set

Il test timed on 40 mins is 27 raw, which, compared to the general population, is the 94th percentile, or IQ 123. And that makes sense, given that the average IQ of a university student is around 110-115.

**Do Oxbridge look at GCSEs?** Do Oxford And Cambridge Look At GCSE Results? Yes, they do. Oxford and Cambridge still consider all of the same factors that other universities do within the application process (although UCAS Tariff points are not used).

**How common is a 9 in GCSE?**

**What percentage of people get a 9 in GCSE art?** The proportion of grade 9 results achieved by art and design subject students, equivalent to a high A\* under the old GCSE system, rose to 7 per cent, compared to 6.5 per cent in 2020 and 4.7 per cent in 2019. You can find the full list of 2021 GCSE results tables by subject [here](#).

**How hard is it to get all 9 in GCSE?** You'll need to work hard throughout your GCSE years in order to get a 9 in any subject, putting in regular effort rather than leaving it all until exam time. If you're aiming for a Grade 9 then you may need to look further afield for resources, other than just past papers, to help you excel in your weaker areas.

**What is GCSE 9 equivalent to?** Grade 9 is the equivalent of above an A\* Grade 8 is the equivalent of in between grades A\* and A. Grade 7 is the equivalent of a grade A. Grade 6 is the equivalent of just above a grade B.

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