



BEACON

VOLUME 4

IMPACT OF
US
ELECTIONS

ACHIEVER'S
WORDS

QUIZ
TIME

HYBRID
DATA-
BASE

FUN
ZONE

APPS
AND
TOOL

CLOUD
COMPUTING

FOURTH
INDUSTRY
REVOLUTION

MOTIVATIONAL
STORY

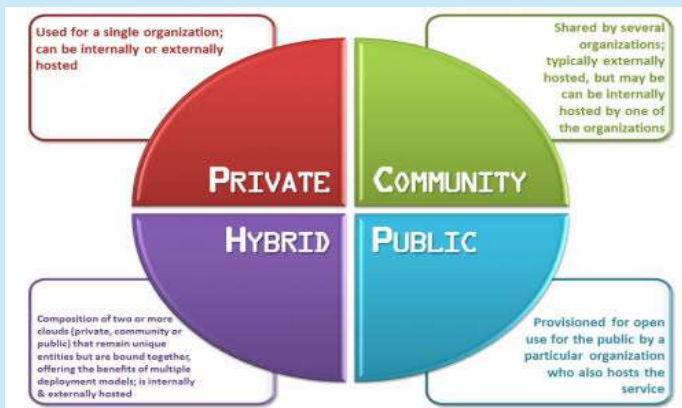
CLOUD COMPUTING

How does Cloud Computing Work?

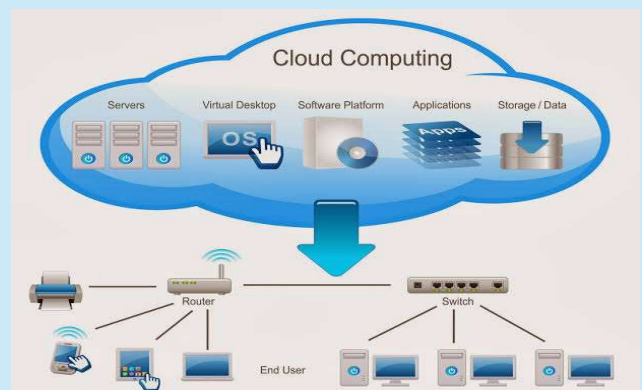
Data & information on a cloud is available to users who have access to it, anywhere, anytime

Cloud computing is a collective use of software and hardware to deliver services over a network, the Internet. Cloud services are easily accessible, increase efficiency and make tasks fairly easy for team members. Cloud computing is a big shift from the traditional way businesses think about IT resources. Here are 7 common reasons organizations are turning to cloud computing services: Cost, Speed, Global scale, Productivity, Performance, Reliability,

- Top Cloud Computing Companies: Kamatera, Softchoice, Prolifics, phoenixNAP, Cloudways, pCloud, Amazon Web Services, Microsoft Azure, Google Cloud Platform, Adobe, VMware, IBM Cloud, Rackspace, Red Hat, Salesforce, Oracle Cloud, SAP, Verizon CloudCloud, Navisite, Dropbox, Egnyte



Security

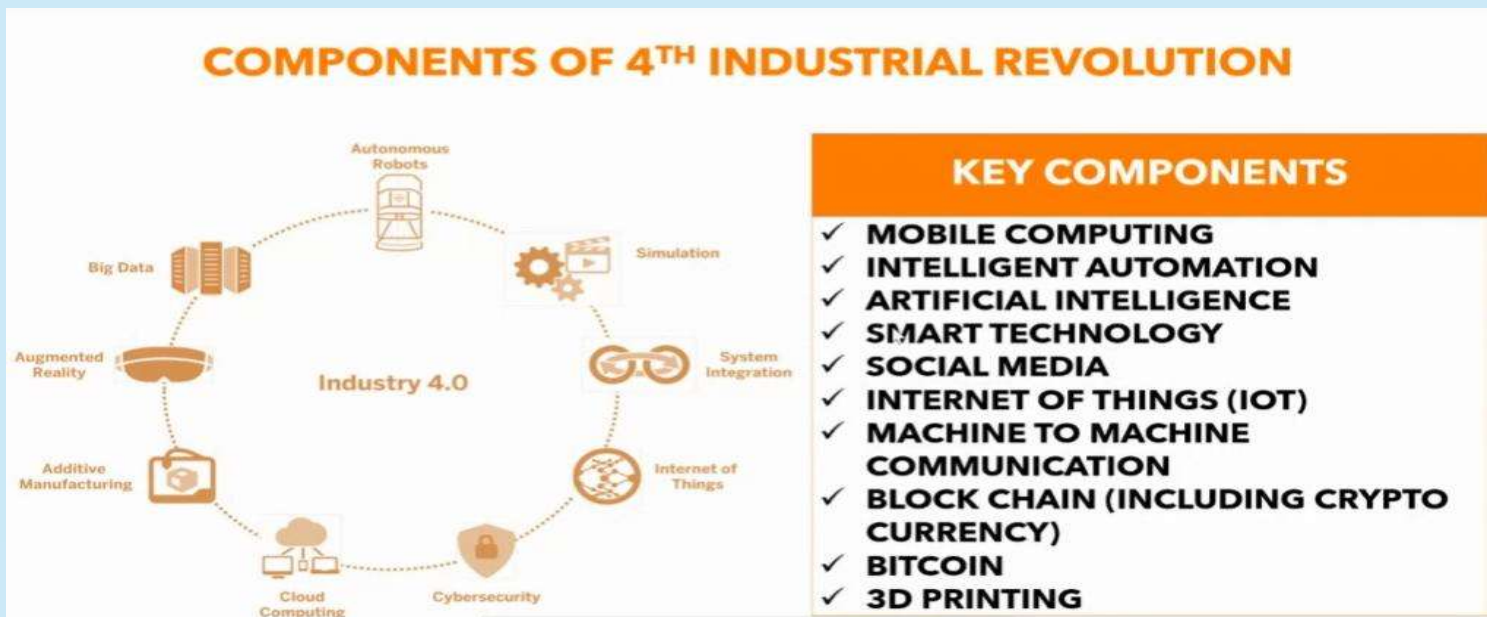


Application of Cloud Computing: Global real time examples of cloud computing include Gmail, G-Drive, iCloud services, etc

Fourth industry revolution

What is industry 4.0?

The Fourth Industrial Revolution is a way of describing the blurring of boundaries between the physical, digital, and biological worlds



How Will the Fourth Industrial Revolution Impact the Future of Work?

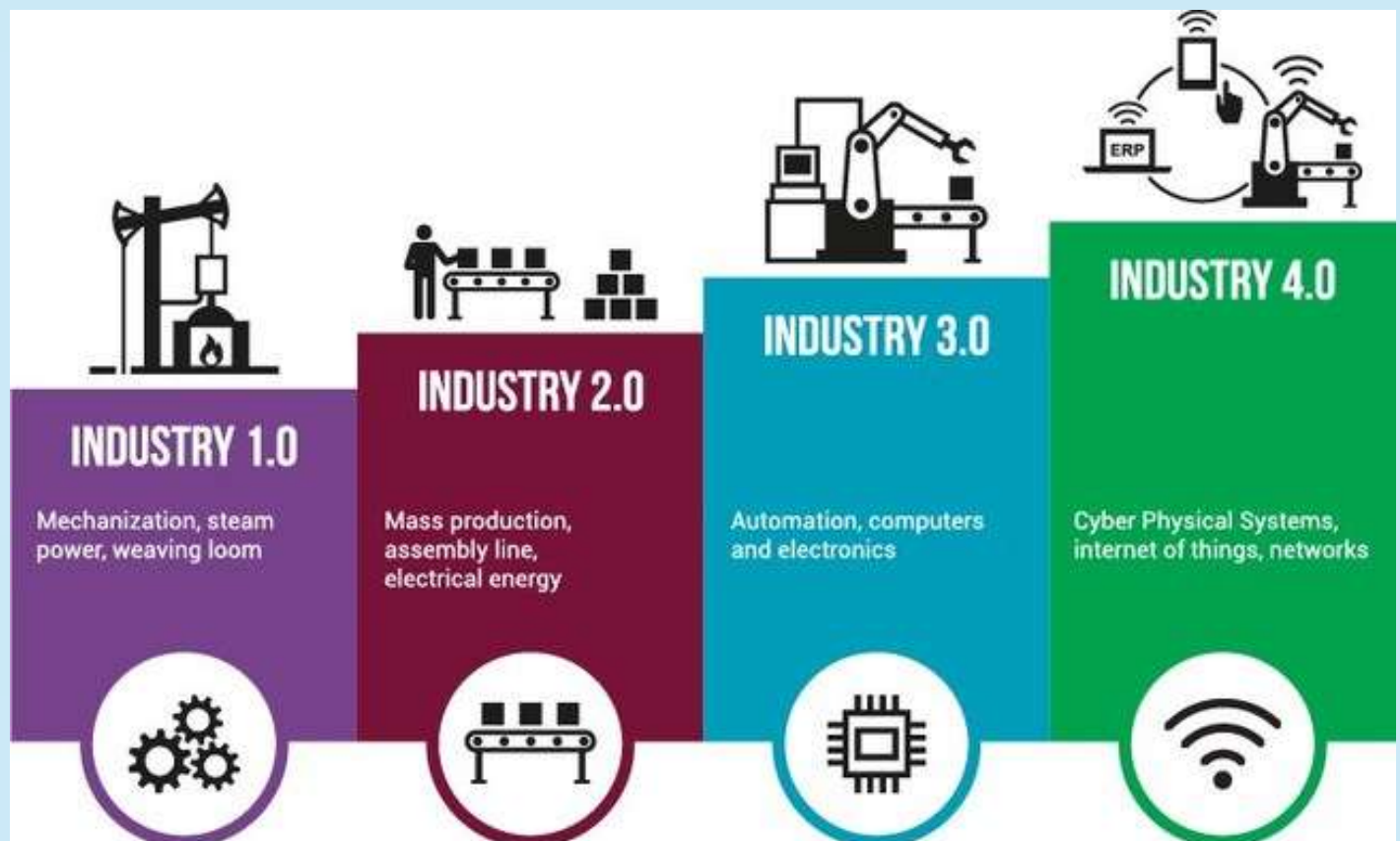
The Fourth Industrial Revolution, also known as Industry 4.0, involves the adoption of cyber-physical systems like the Internet of Things and Internet of systems.

The 4th Industrial Revolution is largely driven by four specific technological developments: high-speed mobile Internet, AI and automation, the use of big data analytics, and cloud technology. Of these four technologies, AI and automation are expected to have the most significant impact on employment figures within the global workforce.

In addition to new roles and responsibilities, the 4th Industrial Revolution could also lead to more companies employing specialist contractors or remote workers. Due to new technology and

changing demands, employers may also become more supportive of existing employees wanting to work remotely or flexibility.

the Fourth Industrial Revolution will have a mostly positive impact on the future of work. It'll allow us to focus on more meaningful tasks and help people across every industry complete their jobs to a higher standard. We're excited about the upcoming changes and are currently looking for ways to integrate AI technology into our workplace.



Motivational story of a business person



Ratan Naval Tata

“I don’t believe in taking right decisions. I take decisions and then make them right.”

Ratan Naval Tata (born 28 December 1937) is an Indian industrialist, philanthropist, and chairman of the TATA group. Ratan Tata is a name which is famous all around the world. But at the inception of the business, he faced two bankruptcies which are enough to take back a businessman.

28 December 1937

Born

1951

Received a degree in Architecture from Cornell University

1991

Became Chairman of Tata Group

2016–2017

Interim chairman of Tata group

2000

Padma Bhushan

2008

Padma Vibhushan

2012

Resigned as Chairman of Tata Group

2012

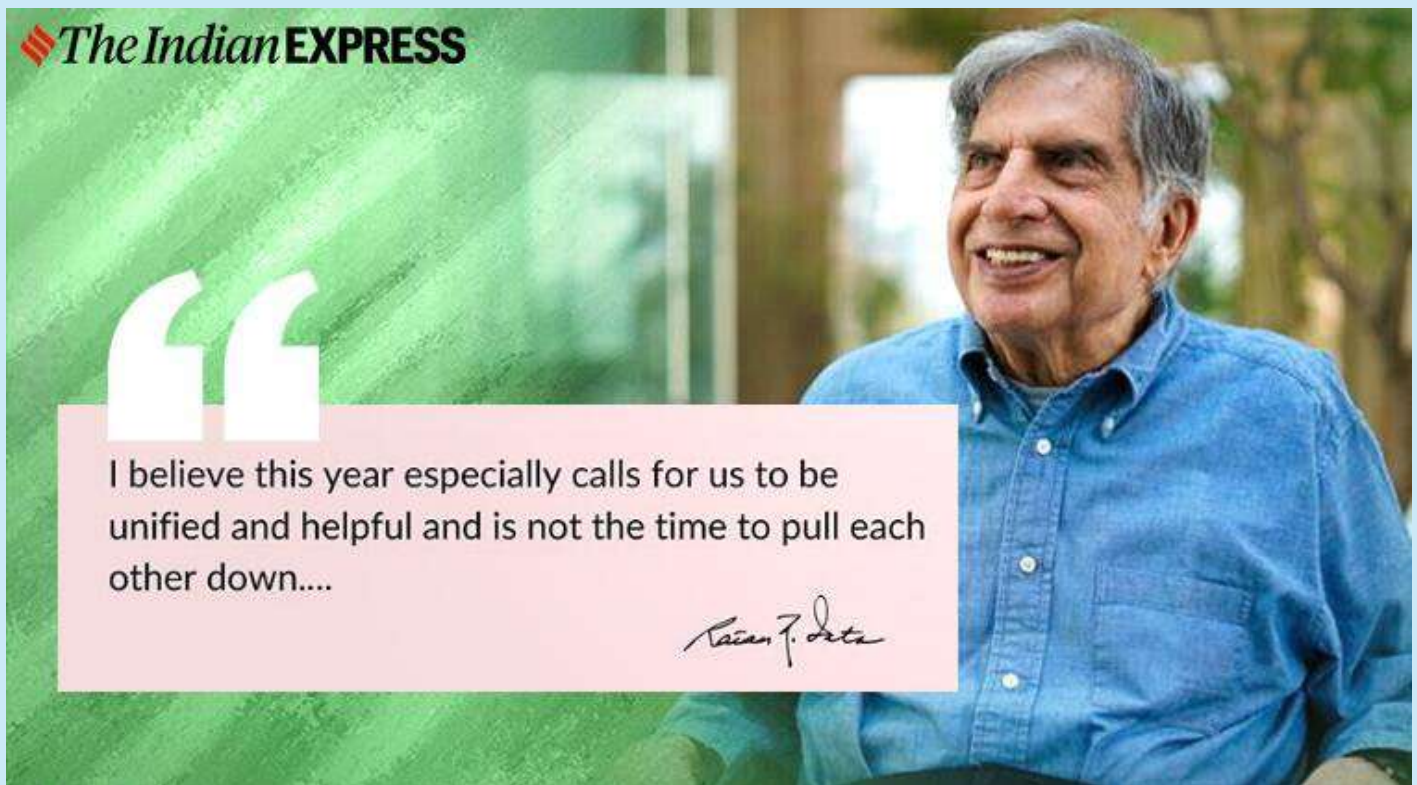
Cyrus Mistry

2016

Became Interim chairman of Tata group

As per data, the revenues of Tata Group grew over 40 times, and profit over 50 times during the time Ratan Tata was the chairman. Ratan Tata firmly believes that a person's attitude and mindset can make or break them

He brought down the retirement age from 70 to 65, leading to an ouster of some of the oldest employees of the organization. Despite the many failures he has seen, Tata Nano being the latest, Ratan Tata did not give up and continues to be a global figure even today.



HOW US ELECTIONS MATTER TO US?



The US relationship is the most important of India's bilateral ties, having grown in recent years on account of China's belligerence. In the concluding part of a series on the US Presidential election, a look at how this relationship has

evolved, and its highs and lows irrespective of whether the President has been a Democrat or a Republican.

Why does the US Election 2020 matter to India?

The relationship with the United States of America matters to India more than any other bilateral engagement: economically, strategically and socially. American Presidents can often make a real difference to bilateral ties, including on trade, on immigration policies, and larger strategic issues. Outside the fringes, the mainstream of political opinion favors stronger relations between the two countries. Anti-Americanism, once the knee-jerk reaction of the Indian elite, seems almost antediluvian today. The Indian diaspora in the US is one of the most successful expatriate communities, and while their political preferences may differ — they all favor a closer bonding between their janmabhoomi or pitrabhoomi and their karmabhoomi.

There are several ways in which the US economy, its health and the policy choices of its government affect India.

For one, the US is one of those rare big countries with which India enjoys a trade surplus. In other words, we export more goods to the US than what we import from it.

Apart from trade in goods, “India accounts for nearly 5 per cent of USA’s services imports from the World,” according to Sabnavis.

Beyond trade, over the past two decades, the US is the fifth-biggest source for Foreign Direct Investment (FDI) into India. Of the total \$476 billion FDI that has come in since April 2000, the US accounted for \$30.4 billion — roughly 6.5 per cent — directly.

Combined with the control of Covid infections and the economic recovery, the US could yet again provide a growth impulse to the global economy that countries such as India need to boost their exports and grow.

As such US elections are a point of consideration for India in the path of uplifting itself towards a better society.



Fun zone

I saw a guy walking through a thunderstorm with a newspaper sat on his head

He wasn't holding it over his head he just sat it on his head.

I thought myself "if that ink run off onto his head....that's gonna make head line".



Why do programmers prefer Dark mode?

Cause light attract bugs().

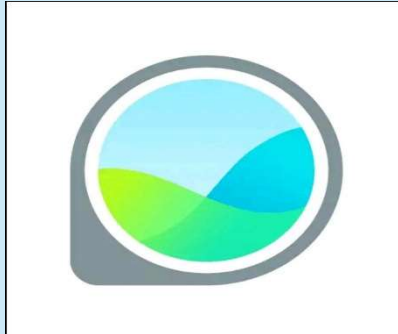
Why won't elephant use the computer?

Because they are afraid of the mouse



Apps and tools of high utility

Glasswire :



Ever wondered which apps are eating away your precious data? GlassWire is an excellent utility app for answering such questions. It shows how much data is used by every app. This is useful for a lot of things. For starters, those on limited data plans can see exactly where their data went. And you can even limit those apps. Additionally, it's useful for security purposes because you can see when apps send data back to their home servers. You also get customizable data alerts, a real-time graph showing your data usage, and other customization features.

Android link : <https://play.google.com/store/apps/details?id=com.glasswire.android>

Solid Explorer :

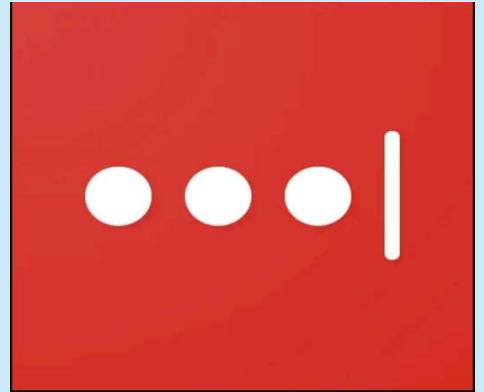


Solid Explorer is probably the best Free file manager on Android right now. It supports the basic stuff, including archiving and un-archiving files, checking your storage folders, moving stuff around, and more. It also has more advanced features like Root Support, Cloud storage support through which you can access all your gdrive/onedrive files in the app itself and it also has support for various types of web servers (FTP and others). This means you don't have to depend on 3rd party apps to transfer files to another device. There are many file managers out there, but Solid Explorer looks and works great.

Download link: <https://play.google.com/store/apps/details?id=pl.solidexplorer2>

Lastpass:

We must keep our passwords private and secure owing to the increasing cyber crimes and data breaches. It's not easy to remember the password of every website we use. So it's better we use password management services/apps for our security. Lastpass is one of the best among such services. It lets you store your passwords. The app fills in the passwords for you and encrypts them in a secure way. Now you just have to remember the master key to access all of your saved passwords. You can sync the passwords across platforms for use on PC, mobile, tablets, and other devices. The app works with all modern web browsers.

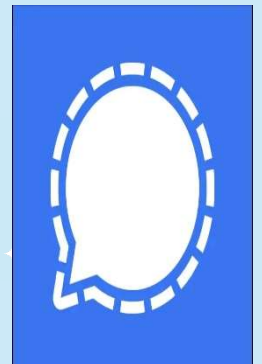


Download link : <https://play.google.com/store/apps/details?id=com.lastpass.lpandroid>

Telegram and Signal:



Telegram and Signal are the most secure messaging apps in the market right now. On the wake of whatsapp new privacy policy which allows them to share your whatsapp profile pictures, IP address, etc with Facebook and their group of companies poses a severe threat to users privacy. Telegram and Signal both offer complete encryption and users don't need to share any personal information. Telegram is very useful for group communication as it supports various groups, channels



and bots for variety of purposes and still keep the user's mobile number private, while Signal is much better for 1 to 1 communication.

Signal Download link: <https://play.google.com/store/apps/details?id=org.thoughtcrime.securesms>

Telegram Download link: <https://play.google.com/store/apps/details?id=org.telegram.messenger>

QUIZ TIME

1) Question: Simba is a witty trader who trade of a mystical fruit grown far in north. He travels from one place to another with three sacks which can hold 30 fruits each. None of the sack can hold more than 30 fruits. On his way, he has to pass through thirty check points and at each check point, he has to give one fruit for each sack to the authorities. How many mystical fruits remain after he goes through all the thirty check points?

Answer: 25 Fruits

Remember we told you that Simba is a witty trader. So his sole motive is to get rid of the sacks as fast as he can.

For the first sack:

He must be able to fill fruits from one sack to other two sacks. Assume that he is able to do that after M check points. Now to find M,

(Space in first sack) M + (Space in second sack) M = (Remaining fruits in Third Sack) 30 – M [M = 10]

Thus after 10 checkpoints, Birbal will be left with only 2 sacks containing 30 fruits each.

Now he must get rid of the second sack.

For that, he must fill the fruits from second sack to the first sack. Assume that he manages to do that after N checkpoints.

(Space in First Sack) N = (Remaining fruits in second sack) 30 – N [N = 15]

Thus after he has crossed 25 checkpoints, he will be left be one sack with 30 fruits in it. He has to pass five more checkpoints where he will have to give five fruits and he will be left with twenty five fruits once he has crossed all thirty check points

2) Question :A man was brought to Akbar's court and he found the man guilt of a little offense. HE decided to punish the man and asked him to make a statement. If the statement is held true by Akbar, the man will be killed by hanging him to death and if the statement is held false, the man will be killed by giving poison.

Answer: The man was confused. He did not know what to say. Therefore, he looked at Birbal and asked for suggestion. Birbal thought for a while and decided to help him, as he had not committed a major offense. He told something in his ear and the man then said the statement to Akbar.

After hearing the statement, Akbar could not kill him. What was the statement?

Answer: The man said, 'I will be killed by giving poison.'

If Akbar says the statement is true, the man will be killed by hanging which will make his statement false.

If Akbar says the statement is false, the man will be killed by giving poison which will make the statement true.

Thus Akbar had no choice but to leave the man unpunished.

HYBRID DATABASE

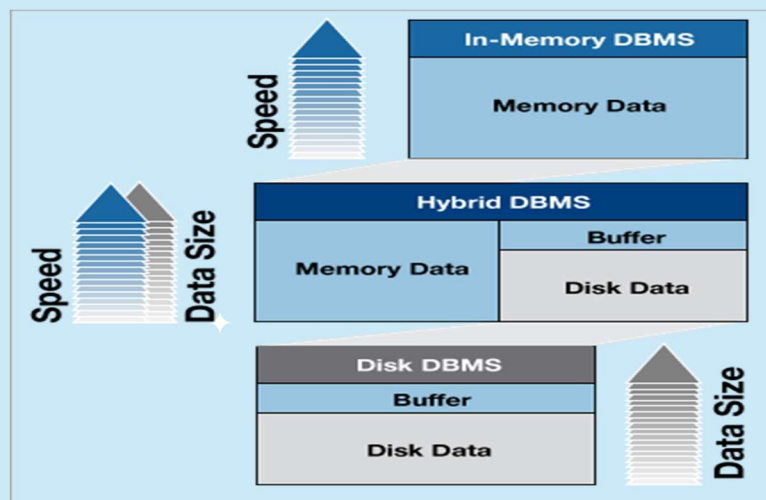
What is hybrid database?

what is relational database? In relational database data exist in the form of relations (set tables)

what is No Sql database?? a NoSQL database does not make use of tables for the storage of data. In No sql data stored in the form of video, audio, text files, email etc. this database used for complex and distributed systems.

Simply, A Hybrid Database is the combination of both Relational and NoSQL databases. A Hybrid Database enjoys the benefits of both Relational and NoSQL databases and eliminates their limitations.

The Hybrid Database uses the physical disk for storing and retrieving data, and it is uses memory to boost the performance.



How It Works?

First the developer join both the database models in-memory and on-disk in a single DB instance. The underlying working of the hybrid databases is based upon the HTAP (Hybrid Transactional and Analytical Processing) functionality. For data storage, both the medium-types in-memory and on-disk are available inside a single application. This permits customers to manage trade-offs between latency, cost, and storage preservation options.

For customers and applications, the variance in operation crosswise storage types will be negligible, as data manipulation will be consistent across all tables, however, cost savings can be significant.

ACHIEVER'S WORDS

NAGARAJU SIRISETTI (DXC TECHNOLOGIES):

"Sandbox is an amazing student friendly Startup company.. CEO Mr Jani Basha, had always been available for the interns and gave amazing opportunities to every intern. As an individual I have gained many knowledge which no other intern companies could provide.. It always believe that students can achieve great things if they have some idea on it.. With the connect meets and students series of workshops and webinars, they became the torch bearer for many curious students."



La Selene Dommu (DXC TECHNOLOGIES):



"Getting started with Sandbox from the SLC program, got to know insights about the Software industry which had been a helping hand. Thanks to Jani sir for his constant support and guidance. To get associated with Sandbox and the Lighthouse team is itself the best thing."

Vinmayi Swamy (Indegene):

"Sand-box provides us a conducive and friendly environment, which helps us to give quality work. I've always been glad to be with Sand-box Technologies because it is the right place to learn and to execute my thoughts and ideas on any platform as I wish. Jani sir, our trainers and our entire team are very supportive and helpful. In terms of career growth also it provides best platform to enhance knowledge and skills. I feel very gratified and proud to be associated with Sand-box Technologies and absolutely look forward to work here on a long tenure."



Lavanya Srija Bayye (Efftronics):



"I think sandbox is doing a great job by providing internships. Working in an association, I've learnt a lot of things. Team work and sharing ideas of different people and supporting each other, these are the main things I've learnt in this internship. It is nice to work in an association where everyone feels like as if they're family."

Meghana Bodapati (Infosys,cognizant,tcs):

"My association with sand-box as an intern helped me to improve my communication skills for my placement preparation and the best things I have noticed with sandbox during my internship was the interview part and training part"

