Client Clean-up for IVF Clinics

Computer Frameworks Data Migration-July 2009
Improving Data Quality for IVF Clinics

IVF clinics can increase their efficiency by consolidating their systems and Computer Frameworks has the answer with data migration solutions. The key benefit from information sharing is efficiency gains in maintenance (applications, and the physical location of the applications). **William Lam**, a seasoned Business Analyst of the Computer Frameworks team, has been the driving force of recent projects in this area.

Computer Frameworks' most recent work found that the IVF Clinic they were working with had many disparate systems which had little integration between the different departments and regional branches. Furthermore, the six variations of the regional databases were not talking to each other which made it extremely difficult to manage frozen embryos (for example, with instances where the egg collection is done interstate as well as in Sydney and vice versa). Multiple instances of the same database have an effect on operational efficiency and quality. This led to slight variations in processes, and inconsistencies with information.

Aside from these problems there was also the issue of systems maintenance. The process of backing up and application support becomes increasingly difficult to manage when there are too many systems – especially if they are geographically dispersed. Also, due to the lack of integration – data had to be handled more than once which made it more prone to human error (typos, spelling mistakes, Street vs. St, Mike vs. Michael).

What is the current situation? The IVF Clinic has now consolidated the six embryology databases (which were stored in their respective labs), Andrology and DLP into one Lab Management System. This system is now centrally stored in one location, as opposed to six. This means each lab will have access to the same information, and it also means that systems are only needed to be maintained in Sydney. A new accounts management system has been introduced, but is now integrated with the lab management software thanks to the help of middleware.

Key steps/processes

1. Classifying data from four systems
    a. Embryology [there were six variations of this database]
    b. Andrology
    c. DPL
    d. Navision
2. Built validation scripts to identify invalid data for the abovesystems
3. Working with the labs to clean up each database (clean up=rectifying issues that were picked up from the above dot point)
4. Building transformation scripts to automate some of the invalid records
5. Building extraction scripts so that data could be loaded into the new system
6. Building exception scripts to identify data that could be loaded into the new system
7. Building verification scripts to verify the actual import

STEP 1	Understanding the current data
STEP 2/3/4	Preparing and cleaning the data to ensure there's an acceptable level of quality and accuracy with the data we want to take across
STEP 5/6/7	Work around the actual migration of data (extract, transform, load)

For further information or to discuss your specific requirements please contact Computer Frameworks.

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