

**ISYS2038 Database Design and Development  
Semester 1, 2024  
Individual Assignment Case Study  
Stella Pty. Ltd.**



Stella Pty. Ltd. is a local clothing store that sells women clothing. The owner of the company, namely Stella Corlini has envisaged the importance of technology in supporting business operations and decision making. At the moment, there are four stores in Collingwood, Brunswick, Richmond and Melbourne CBD, and there are about 50 staff including part-timers employed by Stella.

Stella is keen to keep a track of the customer profiles and their purchase details. In the current stores, each store purchases items from over 20 different suppliers across the world. The stores currently stock a wide range of elegant outfits, including formal suits and shirts, wedding outfits, and casual attire. Suits, shirts, and casual outfits such as sports jackets, casual shirts, shorts, denim wears, etc. are delivered by various suppliers. In addition to providing the popular brands, Stella Pty. Ltd. also has its own collection of accessories such as shoes, wallets, belts, caps, hats, necklaces, earrings, etc. The store managers are responsible for the purchases and they deal directly with the suppliers. Once purchases are made, these items are then delivered by the suppliers directly to the stores.

While all brands are displayed in the shopfront of each store, each store also has a storeroom to keep extra stock (for example, items in different sizes, colours, etc.). In the storerooms, each brand of item is stored in distinct spots and shelf locations. Items are delivered using various mediums including ship, air, rail, and courier van. Stella would like the database management system to be able to collect data and produce business reports that could support her and her employees for their business decision-makings. The database should be able to encapsulate current sales, invoice details, customer profiles, supplier details, shipping details, item details, and employee details.

To date, Stella has managed this all herself using Google Sheets and emails to keep track of all of the details. However, as her business has expanded, it has become difficult to manage everything and extract valuable insights about her business. As such, she wants a dedicated database management system built specifically to her needs, which has the capability of capturing all of the current and future data associated with the business. She has contracted Best Innovative Solutions (BIS) Pty. Ltd. to carry out this work, with you assigned to design and build a database that meets her specification and also deliver analytics solutions.