Advance Database Concepts COMP 214 – 004

Term Project

**SPOT SALES**

(Used and New Items E-Commerce Website)

Group Members –

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| --- | --- |
| Student Name | Student ID |
| Tejinder Singh Pannu | 301232634 |
| Matheus Ferreira Figueiredo Teixeira |  |
| Maharsh Patel | 301301102 |
| Mohammad Baghi |  |

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# **Introduction to Spot Sales**

– An E-commerce revolution

Spot Sales is a cutting-edge E-Commerce website that offers users the convenience of registering for free and effortlessly listing their old and used products for sale. Beyond that, Spot Sales goes the extra mile to empower small businesses, providing them with an ideal platform to showcase and sell their exclusive artwork, newly manufactured items, and a diverse array of products.

With a robust Oracle database at its core, Spot Sales ensures seamless storage and retrieval of crucial information pertaining to users, products, and advertisements. This structured foundation allows us to harness the power of PL/SQL queries, enabling efficient tracking of items and facilitating a smooth, hassle-free shopping experience for our valued customers.

To maintain a well-organized and optimized relational database management system, we have leveraged a range of powerful tools such as Triggers, Functions, Procedures, and Packages. These key components are instrumental in streamlining data operations, enforcing data integrity, and enhancing overall system performance.

Ultimately, Spot Sales aims to redefine E-Commerce, empowering sellers and buyers alike, while striving to offer an unparalleled and delightful shopping experience. We welcome feedback from our users, as we continuously evolve and grow together, embodying our commitment to excellence.

# **Problem – Domain**

In order to create a functioning back-end for your project, Our team put together 10 tables.

1. SS\_Category – Stores all kinds of categories
2. SS\_Advertisement – Stores all the advertisements that will be posted on Spot Sales
3. SS\_Shopper – Stores the data of the users/shoppers
4. SS\_Cart – Stores the Cart for each user along with all the shipping and billing details.
5. SS\_CartItem – Stores particular items in Cart
6. SS\_Shipping – Stores the shipping costs.
7. SS\_Cart\_Status – Stores the status of the cart such as the date created and notes
8. SS\_Cat\_Sales – Stores the top-selling categories to help make Business Intelligence decisions
9. SS\_Shop\_Sales – Stores which shopper is selling the most items

We have created a Procedure (SS\_AddToCart) that helps in adding an item to the cart. The procedure updates the SS\_CartItem table and then our Trigger (ss\_cartItem\_trg) updates the SS\_Cart table.

Publisher experience is enhanced another Procedure, that helps the publisher update the name of its listed products. Furthermore, efficient inventory management is assured using trigger (product\_inventory\_trg) that updates the stocks in SS\_Advertisement table.

Functions are used to calculate shipping costs and much more.

Overall, it is safe to say that Spot Sales Is a well-managed and operated E-Commerce website

# **Entity Relationship (ER) diagram**

A screenshot of a computer

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# **Mock-up Front end screen and screenshots**

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