

Assignment2

1. Item need to provide

- An assignment coversheet as a PDF document
- SQL file (SAGschema.sql) containing the SQL statement to generate the database schema and sample data.
 - supplied original schema and insert SQL statement, and your additional stored procedures
- Python file (database.py) containing the Python code you have written to access the database.

2. Task

- complete SQL files
- 5 function

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项目名称	低分标准(0-1.5 分)	满分标准(2−2.5 分)
✓ Login 登录功能	只允许用户 jdoe 登录验证成功。	所有合法用户均可登录。 用户名不区分大小写。错 误的用户登录请求应被拒 绝。
✓ View CarSales Summary 查看销售摘要	正确展示摘要内容。	正确展示全部摘要信息, 并按品牌、型号升序排 序。
✓ Find CarSales 查找销售记录	正确返回关键字为 "ro" 的销售记录。	正确返回任意关键词的销售记录,按要求排序和过滤(排除3年以上的销售记录等)。
✓ Add CarSale 添加销售车辆	能正确添加一条新车辆记录。	能正确添加所有合法车辆 记录,非法输入(如无效 品牌、负价格)被拒绝。
✓ Update CarSale 更新 销售记录	能正确更新某一条记录的销售状态。	能正确更新所有合法记录,确保买家ID、销售员用户名有效,且销售日期不是未来时间。

项目名称	低分标准(0-1.5 分)	满分标准(2-2.5 分)	
▼ Stored Procedure 创建与调用	创建了几个函数但不完整,或 没有在 Python 中调用。 trigger	至少正确创建并使用两个数据库函数, 且在 Python 中成功调用(如用于统计 或更新逻辑)。	
项目名称	无分(0分)	满分(1分)	
✓ 小组贡献与 Canvas记录	存在组员不贡献、Canvas 无记录、或记录不全。	所有成员均有贡献,并在 Canvas 上记录完整的会议讨论与分工。	

3. Detail

3.1 Logging In

- Enter their username and password.
- Just store original number or data, don't need to be security.

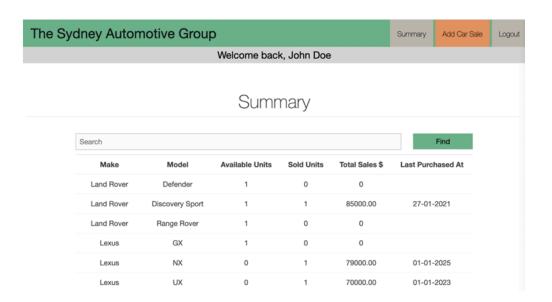
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username should be case insensitive.

3.2 Viewing CarSales Summary

- ordered by MAKE , MODEL ASCENDING
- attribute:
 - Make
 - Model
 - Available Units
 - Sold Units
 - Total Sales
 - Last Purchased At (30-06-2002)

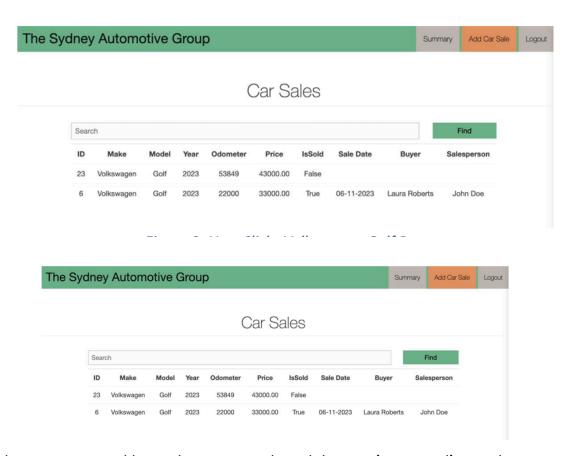
Return Summary



3.3 Finding CarSales

- After selecting row in the Car Sales Summary
- attribute

- o sale ID
- make name
- model name
- built year
- odometer reading
- list price
- isSold



- sold cars are sorted by make name and model name in ascending order.
- The search result must exclude any sold car where sale dates are older than 3 years (from today's date)
- Sale date should be displayed in Date-Month-Year

3.4 Adding a CarSales

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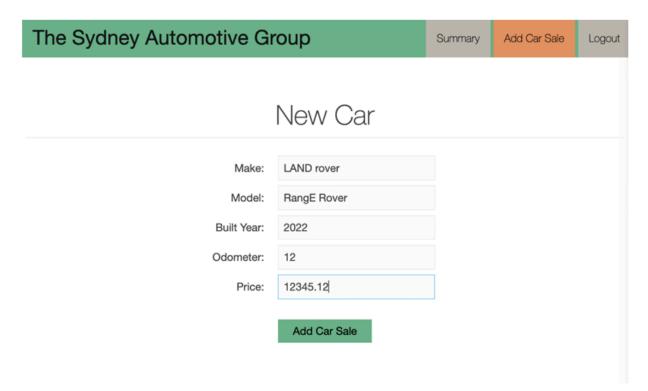


Figure 5: Adding a New Car Sale

3.5 updating a Carsale

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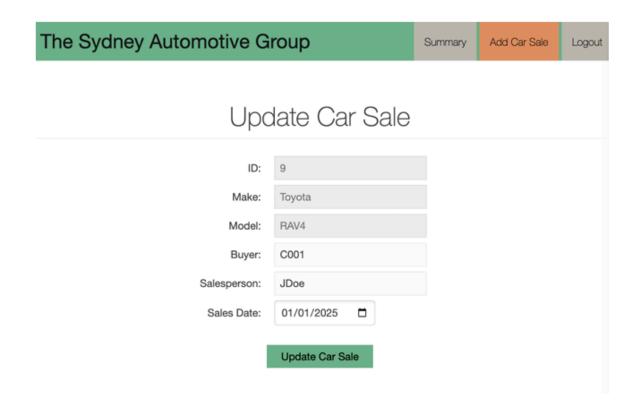


Figure 6 - Updating a Car Sale Record

4. The database structure

- Salesperson (UserName , Password , FirstName , LastName)
 Customer (CustomerID , FirstName , LastName , Mobile)
 Make (MakeCode , MakeName)
 Model (ModelCode , ModelName , MakeCode)
 - CarSales (CarSaleID , MakeCode , ModelCode , BuiltYear , Odometer , Price , IsSold , BuyerID , SalespersonID , SaleDate)

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