***1. Database Creation Instructions (For Full Documentation see Documentation.Docx)***

**Tables:**

*Create tables for Customers, Bicycle, Mechanic, Invoice, Problem, and their corresponding history tables (Customers\_History, Invoice\_History, Problem\_History).*

**Triggers:**

Create triggers for historical data tracking and validation for Customers, Invoice, and Problem tables.

* **trg\_CustomersHistory\_AfterInsert**: Captures new customer data insertions.
* **trg\_CustomersHistory\_AfterUpdate**: Records updates made to customer data.
* **trg\_CustomersHistory\_AfterDelete**: Records Delete made to customer data.
* **trg\_InvoiceHistory\_AfterUpdate**: Records updates made to Invoice data.
* **trg\_InvoiceHistory\_AfterInsert**: Captures new Invoice data insertions.
* **trg\_InvoiceHistory\_AfterDelete**: Records Delete made to Invoice data.
* **trg\_ProblemHistory\_AfterUpdate**: Records updates made to Problem data.
* **trg\_ProblemHistory\_AfterInsert**: Captures new Problem data insertions.
* **trg\_ProblemHistory\_AfterDelete**: Records Delete made to Problem data.
* **check\_dates\_before\_insert: OrderDateOut cannot be earlier than Orderdatein**
* ***validate\_customer\_data***: First name cannot be null  
  Insert, Update, Delete Operations:

*Execute operations for Customers, Invoice, and Problem tables.*

*Insert, Update, and Delete operations along with corresponding screenshots.*

*Views:*

*Create views CustomerInvoices and RepairDetails.*

**2. Access Connection Instructions:**

*Create an ODBC connection (Assignment2\_last) to Oracle.*

*Open Access, go to External Data, select "New Data Source," choose "From Other Sources," then "ODBC Database."*

*Choose the ODBC connection (Assignment2\_last) and import tables.*

**3. Access Database Operations:**

*Demonstrate inserting, updating, and deleting records in Access after importing from Oracle.*

**4. Access Relationship:**

*Establish relationships within Access between the imported tables.*

*Additional Recommendations:*

*Ensure that the historical data framework and triggers are functioning as intended.*

*Verify that the relationships between tables align with the described business rules.*