# Big Data Management - Assignment 3 AmazonRDS

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### Task 1: Inserting the data

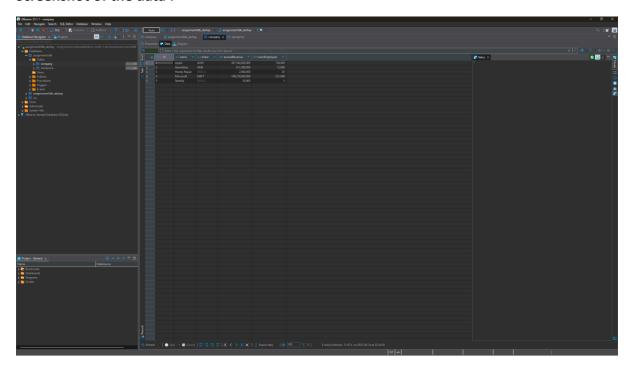
#### Code:

```
primary would perplain the constraints of the settle settle initial data...");

System.conf.primary to mar giving objects, which is a significant structural change.

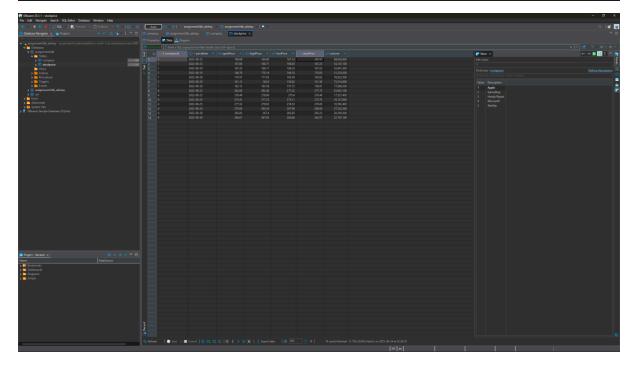
transportant and marked the constraints of the settle settle
```

# Screenshot of the data:



# Task 2: Deleting the data

```
private void deleteSpecifiedRecords() throws SQLException {
    System.out.println(x:"Deleting records based on assignment criteria...");
    String sql = "DELETE FROM stockprice WHERE priceDate < '2022-08-20' OR companyId = 2";
    try (Statement stmt = dbConnection.createStatement()) {
        int rowsAffected = stmt.executeUpdate(sql);
        System.out.println("--> " + rowsAffected + " records deleted.");
    }
}
```



#### Query 1:

#### Screenshot of Query 1 output:

#### Query 2:

#### Screenshot of Query 2 output:

## Query 3:

```
private ResultSet executeQueryThree() throws SQLException (
String sql = "SELECT c.name, c.ticker, s30.closePrice Ac ClosingPrice_Aug30 "
+ "RRM company c "
+ "RRM company c "
+ "LEFT JOIN Stockprice S30 ON c.id = 30.companyId AMD S30.priceDate = '2022-08-30' "
+ "LEFT JOIN SELECT companyId, AVG(closePrice) AS avgClose FROM stockprice BETMEEN '2022-08-15' AMD '2022-08-19' GROUP BY companyId AS avgMeek ON c.id = avgMeek.companyId "
+ "HHERE c.ticker IS NULL OR (s30.closePrice IS NOT NULL AND avgMeek.avgClose IS NOT NULL AND s30.closePrice >= (avgMeek.avgClose * 0.9))";
return dbConnection.createStatement().executeQuery(sql);
}
```

#### Screenshot of Query 3 output:

resultSetToString(): I have replace resultSetToString() method with a new, custom-built display system.

I have also integrated the resultSetMetaDataToString() into displayResultSet() by using metaData.getColumnName(i + 1)

```
| State | Stat
```

[ Query 1:		s with >10k E	mployees or <\$1	M Revenue]	
name	annualRevenue   num		Employees		
Apple     GameStop     Microsoft     StartUp	387540000000.00   15400   611000000.00   12000   198270000000.00   22100   50000.00   3		999   99		
Total results: 4					
[ Query 2: Aggregate Stock Info for Aug 22-26]					
name		lowestPrice		avgClosePrice	
	AAPL	163.56 267.98	171.05   282.46	167.196000 275.384000	61411420.0000     20968280.0000
Total results: 2					
[ Query 3: Price Comparison for Aug 30]					
name		r   closePrice			
Handy Repai	r   NULL   NULL	NULL NULL			
		NULL			
Total results					
Database conn	ection cl	osed.			