COMP 3111: Software Engineering

HKeInvestData.cs Documentation

To Use the Methods in HKeinvestData.cs

1. Add the following directives to your code file.

```
using System.Data;
using System.Data.SqlClient;
using HKeInvestWebApplication.Code_File;
```

2. Declare an instance of the HKelnvestData class, such as

```
HKeInvestData myHKeInvestData = new HKeInvestData();
```

RETRIEVING DATA FROM TABLES

public DataTable getData(string sql)

Parameters: sql - the SQL SELECT statement

Return type: a DataTable containing the result of the SQL SELECT statement

null - an error occurred in processing the SQL SELECT statement

Example usage: myHKeInvestData.getData("select [name] from [Person]");

RETRIEVING AGGREGATE VALUES FROM TABLES

public decimal getAggregateValue(string sql)

Parameters: sql - the aggregate SQL SELECT statement

The aggregate functions are: avg, count, max, min, sum, stdev, var

Return type: the aggregate value

-1 - an error occurred in processing the aggregate SQL SELECT statement

Example usage: myHKeInvestData.getAggregateValue("select count(*) from

[Person]");

UPDATING DATA IN TABLES

```
public SqlTransaction beginTransaction()
public void commitTransaction(SqlTransaction trans)
public void setData(string sql, SqlTransaction trans)
```

Parameters: sql - the SQL INSERT, UPDATE or DELETE statement

trans - a transaction created by a beginTransaction() statement

Example usage: SqlTransaction trans = myHKeInvestData.BeginTransaction();

myHKeInvestData.setData("update [Person] set [FirstName] =

'John' where [lastName]='Chan'", trans); myHKeInvestData.commitTransaction(trans);

Note: When updating multiple tables at one time, place all update statements between a BeginTransaction statement and a CommitTransaction statement.