"Stock Management System"

Screenshots of the Application

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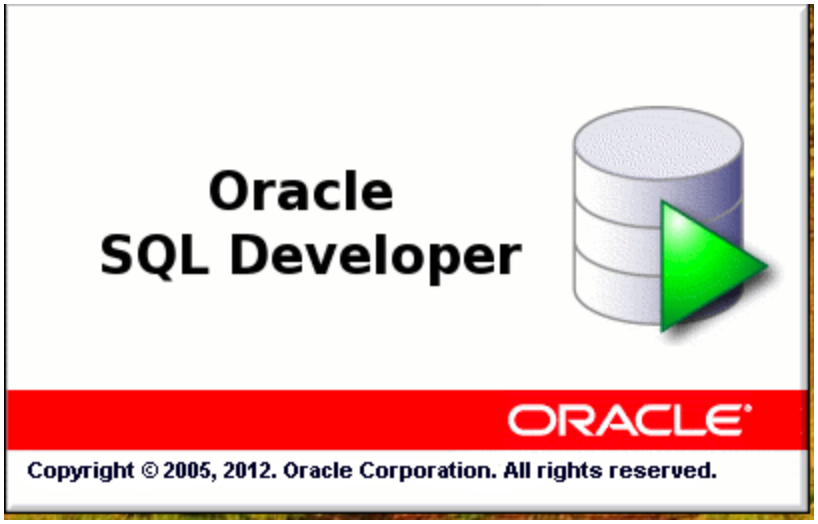


Introduction

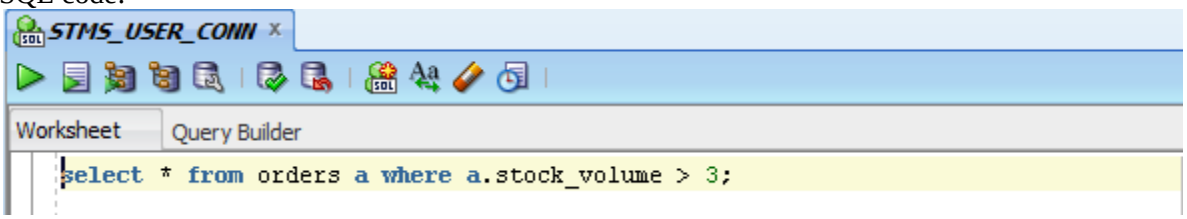
The presented the screenshots of the application are depicted in the following manner

1. Retrieving the list of Orders from the orders table.
2. Inserting new Orders into the order table.
3. Updating Account balance.
4. Deleting an Order.
5. Deleting a Customer.
6. Inserting Stocks into stock history at the close of the day.

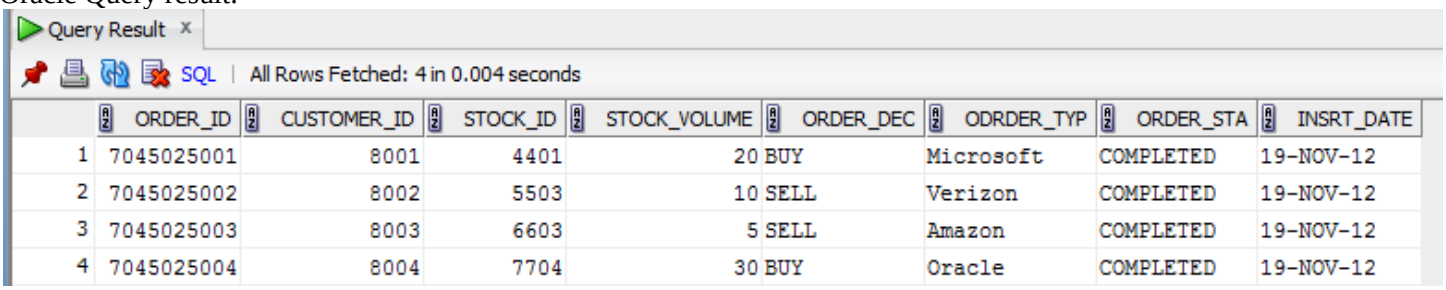
The Application uses Oracle as its Database and every DML operation is executed through a SQL code. The below screen shots briefs before and after states of an operation.

1. Selection of Orders

SQL code:



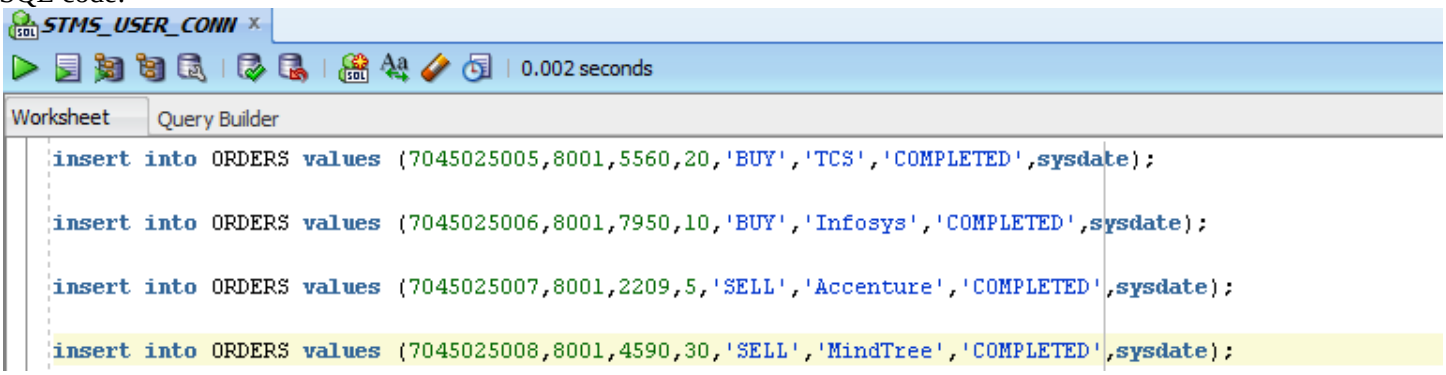
Oracle Query result:



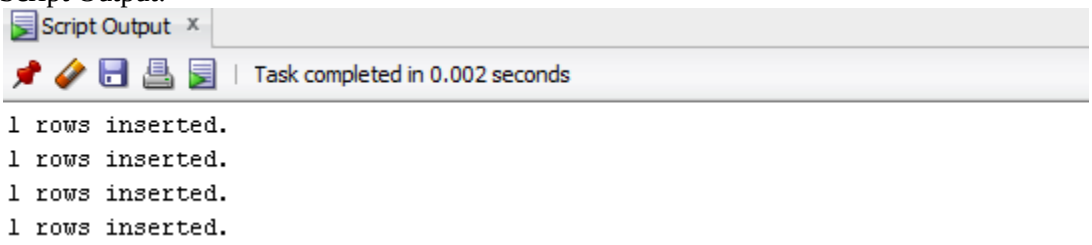
	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_DATE
1	7045025001	8001	4401	20	BUY	Microsoft	COMPLETED	19-NOV-12
2	7045025002	8002	5503	10	SELL	Verizon	COMPLETED	19-NOV-12
3	7045025003	8003	6603	5	SELL	Amazon	COMPLETED	19-NOV-12
4	7045025004	8004	7704	30	BUY	Oracle	COMPLETED	19-NOV-12

2. Insertion of Orders

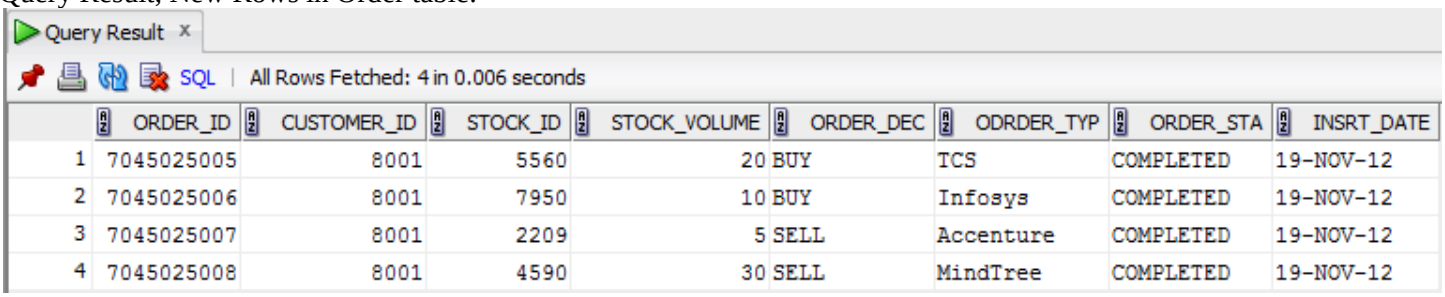
SQL code:



Script Output:



Query Result, New Rows in Order table:



	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_DATE
1	7045025005	8001	5560	20	BUY	TCS	COMPLETED	19-NOV-12
2	7045025006	8001	7950	10	BUY	Infosys	COMPLETED	19-NOV-12
3	7045025007	8001	2209	5	SELL	Accenture	COMPLETED	19-NOV-12
4	7045025008	8001	4590	30	SELL	MindTree	COMPLETED	19-NOV-12

3. Updating the account balance

Before update, the original rows:

STMS_USER_CONN | ACCOUNT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ACCOUNT_ID	CUSTOMER_ID	BALANCE	ACC_DESC	TRANS_TYPE	UPDT_DATE
1	7765410	8001	1700.65	DMAT Account	Active	19-NOV-12
2	8865431	8002	3700.88	DMAT Account	Active	19-NOV-12
3	6665432	8003	5600.45	DMAT Account	Active	19-NOV-12
4	9965433	8004	3300.78	DMAT Account	Active	19-NOV-12

SQL code:

STMS_USER_CONN | ACCOUNT

0.002 seconds

Worksheet | Query Builder

```
update account
  set balance = balance +200
  where acc_desc = 'DMAT Account';
```

Script Output:

Script Output

Task completed in 0.002 seconds

```
4 rows updated.
```

Updated rows:

STMS_USER_CONN | ACCOUNT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ACCOUNT_ID	CUSTOMER_ID	BALANCE	ACC_DESC	TRANS_TYPE	UPDT_DATE
1	7765410	8001	1900.65	DMAT Account	Active	19-NOV-12
2	8865431	8002	3900.88	DMAT Account	Active	19-NOV-12
3	6665432	8003	5800.45	DMAT Account	Active	19-NOV-12
4	9965433	8004	3500.78	DMAT Account	Active	19-NOV-12

4. Deleting Orders

Before delete the Original rows:

STMS_USER_CONN | ORDERS

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_D...
1	7045025001	8001	4401	20	BUY	Microsoft	COMPLETED	19-NOV-12
2	7045025002	8002	5503	10	SELL	Verizon	COMPLETED	19-NOV-12
3	7045025003	8003	6603	5	SELL	Amazon	COMPLETED	19-NOV-12
4	7045025004	8004	7704	30	BUY	Oracle	COMPLETED	19-NOV-12
5	7045025005	8001	5560	20	BUY	TCS	COMPLETED	19-NOV-12
6	7045025006	8001	7950	10	BUY	Infosys	COMPLETED	19-NOV-12
7	7045025007	8001	2209	5	SELL	Accenture	COMPLETED	19-NOV-12
8	7045025008	8001	4590	30	SELL	MindTree	COMPLETED	19-NOV-12

SQL code:

STMS_USER_CONN | ORDERS

0.002 seconds

Worksheet | Query Builder

```
delete from orders where customer_id = 8001;
```

Script Output:

Script Output

Task completed in 0.002 seconds

```
5 rows deleted.
```

Current Rows after Delete:

STMS_USER_CONN | ORDERS

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_D...
1	7045025002	8002	5503	10	SELL	Verizon	COMPLETED	19-NOV-12
2	7045025003	8003	6603	5	SELL	Amazon	COMPLETED	19-NOV-12
3	7045025004	8004	7704	30	BUY	Oracle	COMPLETED	19-NOV-12

5. Deleting Customer

Deleting Stocks results in deleting orders, account automatically in the respective tables due to the foreign key's DELETE policy set to CASCADE. The respective rows of customers are deleted in Orders and Accounts table.

Before delete the Original rows in Customer

STMS_USER_CONN | CUSTOMER

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	CUSTOMER_ID	PASSWORD	FIRST_NAME	LAST_NAME	ADDRESS	EMAIL
1	8001	dbheights	Mohamed Niyaz	Mohamed Rafick	9547-H University Terrace Drive,NC,Charlotte-28262	mmohame4@uncc.edu
2	8002	winner	Jude Nishanth	Wilfred	9509-J University Terrace Drive,NC,Charlotte-28262	jwilfred@uncc.edu
3	8003	thankgod	Haritha	Mandappu	9523-K University Terrace Drive,NC,Charlotte-28262	haritha@uncc.edu
4	8004	iwon	Divya	Arveni	9540-A University Terrace Drive,NC,Charlotte-28262	arvenidivya@uncc.edu

Before delete the customer dependent table Account:

STMS_USER_CONN | ACCOUNT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ACCOUNT_ID	CUSTOMER_ID	BALANCE	ACC_DESC	TRANS_TYPE	UPDT_DATE
1	7765410	8001	1700.65	DMAT Account	Active	19-NOV-12
2	8865431	8002	3700.88	DMAT Account	Active	19-NOV-12
3	6665432	8003	5600.45	DMAT Account	Active	19-NOV-12
4	9965433	8004	3300.78	DMAT Account	Active	19-NOV-12

Before delete the customer dependent table Order:

STMS_USER_CONN | ORDERS

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_D...
1	7045025002	8002	5503	10	SELL	Verizon	COMPLETED	19-NOV-12
2	7045025003	8003	6603	5	SELL	Amazon	COMPLETED	19-NOV-12
3	7045025004	8004	7704	30	BUY	Oracle	COMPLETED	19-NOV-12

SQL Code:

STMS_USER_CONN | ACCOUNT

0.002 seconds

Worksheet | Query Builder

```
delete from customer where customer_id = 8002;
```

Script Output:

Script Output

Task completed in 0.002 seconds

```
1 rows deleted.
```

After delete the rows in Customer:

STMS_USER_CONN | CUSTOMER

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	CUSTOMER_ID	PASSWORD	FIRST_NAME	LAST_NAME	ADDRESS	EMAIL
1	8001	dbheights	Mohamed Niyaz	Mohamed Rafick	9547-H University Terrace Drive,NC,Charlotte-28262	mmohame4@uncc.edu
2	8003	thankgod	Haritha	Mandappu	9523-K University Terrace Drive,NC,Charlotte-28262	haritha@uncc.edu
3	8004	iwon	Divya	Arveni	9540-A University Terrace Drive,NC,Charlotte-28262	arvenidivya@uncc.edu

After delete the rows in Account:

STMS_USER_CONN | ACCOUNT

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ACCOUNT_ID	CUSTOMER_ID	BALANCE	ACC_DESC	TRANS_TYPE	UPDT_DATE
1	7765410	8001	1700.65	DMAT Account	Active	19-NOV-12
2	6665432	8003	5600.45	DMAT Account	Active	19-NOV-12
3	9965433	8004	3300.78	DMAT Account	Active	19-NOV-12

After delete the rows in Orders:

STMS_USER_CONN | ORDERS

Columns | Data | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

	ORDER_ID	CUSTOMER_ID	STOCK_ID	STOCK_VOLUME	ORDER_DEC	ODRDER_TYP	ORDER_STA	INSRT_D...
1	7045025003	8003	6603	5	SELL	Amazon	COMPLETED	19-NOV-12
2	7045025004	8004	7704	30	BUY	Oracle	COMPLETED	19-NOV-12

6. Inserting into Stock History

SQL code:

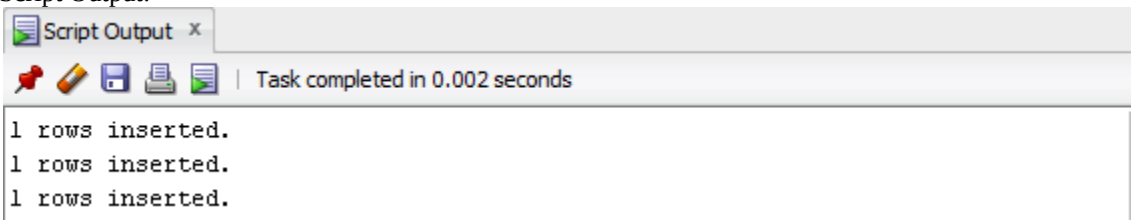
STMS_USER_CONN | STOCK

0.002 seconds

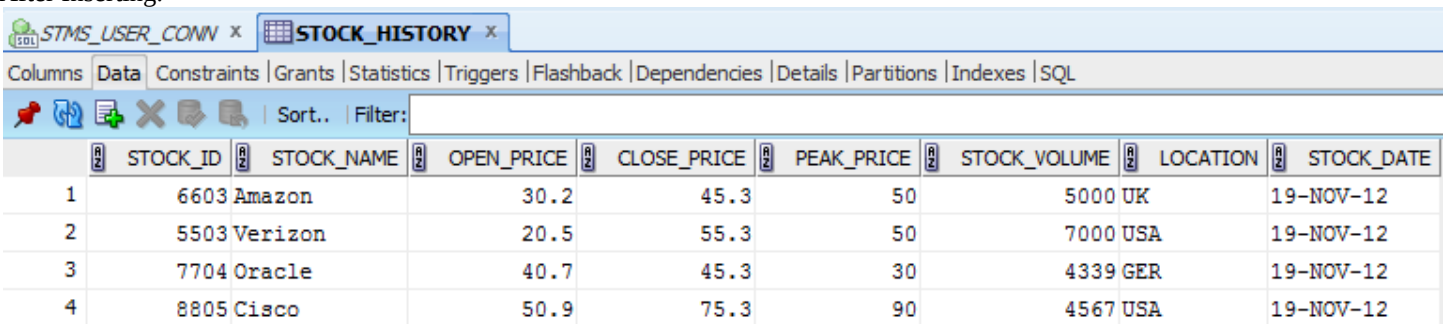
Worksheet | Query Builder

```
insert into STOCK_HISTORY values (6603,'Amazon',30.20,45.30,50,5000,'UK',sysdate);
insert into STOCK_HISTORY values (5503,'Verizon',20.50,55.30,50,7000,'USA',sysdate);
insert into STOCK_HISTORY values (7704,'Oracle',40.70,45.30,30,4339,'GER',sysdate);
insert into STOCK_HISTORY values (8805,'Cisco',50.90,75.30,90,4567,'USA',sysdate);
```

Script Output:



After Inserting:



	STOCK_ID	STOCK_NAME	OPEN_PRICE	CLOSE_PRICE	PEAK_PRICE	STOCK_VOLUME	LOCATION	STOCK_DATE
1	6603	Amazon	30.2	45.3	50	5000	UK	19-NOV-12
2	5503	Verizon	20.5	55.3	50	7000	USA	19-NOV-12
3	7704	Oracle	40.7	45.3	30	4339	GER	19-NOV-12
4	8805	Cisco	50.9	75.3	90	4567	USA	19-NOV-12