

# CSC 453 HW2 Part-A

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The screenshot shows the SQL Enterprise Manager interface. The left pane displays a tree view of the database schema, including tables like ENROLLED, GAME, HANDLES, INJURY\_RECORD, LOAN, MANUFACTURERS, MEMBEROF, PLAYER, PRODUCTS, RATING, RESTAURANT, REVIEWER, STUDENT, STUDENTGROUP, and TEAM. The main pane shows a worksheet with the following SQL query:

```
1 -- 1. Select the names of the products with a price less than or equal to $200
2 SELECT name, price
3 FROM products
4 WHERE price <= 200;
5
```

The query results are displayed in a table below the worksheet:

|   | NAME            | PRICE |
|---|-----------------|-------|
| 1 | Memory          | 120   |
| 2 | ZIP drive       | 150   |
| 3 | Floppy disk     | 5     |
| 4 | DVD drive       | 180   |
| 5 | CD drive        | 90    |
| 6 | Toner cartridge | 66    |
| 7 | DVD burner      | 180   |

The SQL History pane at the bottom shows the executed query: `SELECT name, price FROM products WHERE price <= 200;`. The status bar indicates "All Rows Fetched: 7 in 0.016 seconds".

The screenshot shows the SQL Enterprise Manager interface. The left pane displays the same database schema tree view. The main pane shows a worksheet with the following SQL query:

```
1 -- 2. Select all the products with a price between $60 and $120
2 SELECT name, price
3 FROM products
4 WHERE price >= 60 AND price <= 120
5 ORDER BY price;
```

The query results are displayed in a table below the worksheet:

|   | NAME            | PRICE |
|---|-----------------|-------|
| 1 | Toner cartridge | 66    |
| 2 | CD drive        | 90    |
| 3 | Memory          | 120   |

The SQL History pane at the bottom shows the executed query: `SELECT name, price FROM products WHERE price >= 60 AND price <= 120 ORDER BY price;`. The status bar indicates "All Rows Fetched: 3 in 0.019 seconds".

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The screenshot shows the SQL Developer interface with a query window titled 'ComputerStore.sql'. The query is as follows:

```

1 -- 3. Select the name and price in cents (i.e., the price is in dollars).
2 SELECT name, 100*price as price_in_cents
3 FROM products;

```

The query results are displayed in a table with 10 rows and 2 columns: NAME and PRICE\_IN\_CENTS.

| NAME              | PRICE_IN_CENTS |
|-------------------|----------------|
| 1 Hard drive      | 24000          |
| 2 Memory          | 12000          |
| 3 ZIP drive       | 15000          |
| 4 Floppy disk     | 500            |
| 5 Monitor         | 24000          |
| 6 DVD drive       | 18000          |
| 7 CD drive        | 9000           |
| 8 Printer         | 27000          |
| 9 Toner cartridge | 6600           |
| 10 DVD burner     | 18000          |

The SQL History window at the bottom shows the executed query and its details.

| Connect... | TimeStamp          | Type | Executed | Duratio... |
|------------|--------------------|------|----------|------------|
| csc453     | 07-OCT-18 10:24 PM | SQL  | 3        | 0.012      |

Click on an identifier with the Command key down to perform "Go to Declaration"

The screenshot shows the SQL Developer interface with a query window titled 'ComputerStore.sql'. The query is as follows:

```

1 -- 4. Select the product name, price, and manufacturer name of all the products.
2 SELECT p.name, p.price, m.name AS manufacturer_name
3 FROM manufacturers m, products p
4 WHERE m.code = p.manufacturer;

```

The query results are displayed in a table with 10 rows and 3 columns: NAME, PRICE, and MANUFACTURER\_NAME.

| NAME              | PRICE | MANUFACTURER_NAME |
|-------------------|-------|-------------------|
| 1 Monitor         | 240   | Sony              |
| 2 DVD drive       | 180   | Creative Labs     |
| 3 CD drive        | 90    | Creative Labs     |
| 4 DVD burner      | 180   | Creative Labs     |
| 5 Printer         | 270   | Hewlett-Packard   |
| 6 Toner cartridge | 66    | Hewlett-Packard   |
| 7 ZIP drive       | 150   | Omega             |
| 8 Hard drive      | 240   | Fujitsu           |
| 9 Floppy disk     | 5     | Winchester        |
| 10 Memory         | 120   | Winchester        |

The SQL History window at the bottom shows the executed query and its details.

| Connect... | TimeStamp          | Type | Executed | Duratio... |
|------------|--------------------|------|----------|------------|
| csc453     | 07-OCT-18 10:24 PM | SQL  | 3        | 0.015      |

Click on an identifier with the Command key down to perform "Go to Declaration"

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Worksheet Query Builder

```

1 -- 5. Select all manufactures who currently do not have any listed products.
2 SELECT name
3 FROM manufacturers
4 WHERE code NOT IN (SELECT manufacturer FROM products);

```

Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7 x Query Result 8 x

SQL All Rows Fetched: 0 in 0.012 seconds

NAME

SQL History

SQL SELECT name FROM manufacturers WHERE code NOT IN (SELECT manufacturer FROM products);

Connect... TimeStamp 07-OCT-18 10:25 PM Type SQL Executed 3 Duration... 0.012

Click on an identifier with the Command key down to perform "Go to Declaration" Line 4 Column 55 Insert Modified! Unix/Mac: LF

ComputerStore.sql csc453

Worksheet Query Builder

```

1 -- 6. Select the name of each manufacturer along with the name and price of its most expensive product.
2 SELECT m.name, p1.name, p1.price
3 FROM manufacturers m, products p1
4 WHERE p1.price IN
5     (SELECT MAX(price)
6      FROM products p2
7      WHERE p1.manufacturer = p2.manufacturer AND p2.manufacturer = m.code)
8 ORDER BY m.code;

```

Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7 x Query Result 8 x

SQL All Rows Fetched: 7 in 0.007 seconds

|   | NAME            | NAME_1     | PRICE |
|---|-----------------|------------|-------|
| 1 | Sony            | Monitor    | 240   |
| 2 | Creative Labs   | DVD drive  | 180   |
| 3 | Creative Labs   | DVD burner | 180   |
| 4 | Hewlett-Packard | Printer    | 270   |
| 5 | Iomega          | ZIP drive  | 150   |
| 6 | Fujitsu         | Hard drive | 240   |
| 7 | Winchester      | Memory     | 120   |

SQL History

SQL SELECT m.name, p1.name, p1.price FROM manufacturers m, products p1 WHERE p1.price IN (SELECT MAX(price) FROM products p2 WHERE p1.manufacturer = p2.manufacturer AND p2.manufacturer = m.code) ORDER BY m.code;

Connect... TimeStamp 07-OCT-18 10:25 PM Type SQL Executed 3 Duration... 0.007

Click on an identifier with the Command key down to perform "Go to Declaration" Line 8 Column 17 Insert Modified! Unix/Mac: LF

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The screenshot displays the Microsoft SQL Server Enterprise Manager interface. On the left, the 'Connections' pane shows a tree view of the database schema, including tables like ENROLLED, GAME, HANDLES, INJURY\_RECORD, LOAN, MANUFACTURERS, PRODUCTS, RATING, RESTAURANT, REVIEWER, STUDENT, STUDENTGROUP, and TEAM. The 'Reports' pane on the bottom left lists various report types such as All Reports, Analytic View Reports, Data Dictionary Reports, Data Modeler Reports, OLAP Reports, TimesTen Reports, and User Defined Reports.

The main 'Query Builder' window shows a SQL query in the 'Worksheet' tab. The query is as follows:

```
1 -- 7. Select the names and average prices of manufacturer whose products have an average price larger than or equal to $150.  
2 SELECT m.name, avgprice  
3 FROM manufacturers m  
4 JOIN (SELECT AVG(price) AS avgprice, p2.manufacturer  
5 FROM products p2, manufacturers  
6 WHERE p2.manufacturer = manufacturers.code  
7 GROUP BY p2.manufacturer) pr ON m.code= pr.manufacturer  
8 WHERE avgprice >= 150;
```

Below the query, the 'Query Result' pane displays the results of the query. It shows a table with two columns: 'NAME' and 'AVGPRICE'. The results are as follows:

| NAME              | AVGPRICE |
|-------------------|----------|
| 1 Sony            | 240      |
| 2 Creative Labs   | 150      |
| 3 Hewlett-Packard | 168      |
| 4 Iomega          | 150      |
| 5 Fujitsu         | 240      |

The 'SQL History' pane at the bottom shows the executed query and its details, including the connection name 'csc453', the timestamp '07-OCT-18 10:25 PM', the type 'SQL', the number of rows executed '5', and the duration '0.023'.

At the bottom of the window, a status bar indicates the current line and column: 'Line 8 Column 23'. It also includes a prompt: 'Click on an identifier with the Command key down to perform "Go to Declaration"'. The status bar also shows 'Insert' and 'Modified! Unix/Mac: LF'.