



### Lab Report Cover Page

Course Number	CPS510
Course Title	Database Systems I
Semester/Year	F2020
Instructor	Dr. A. Abhari
TA Name	Haytham Qushtom

Assignment/Lab Report No.	4
Report Title	Demo of Designing Views/Simple Queries

Section No.	8
Group No.	9
Submission Date	October 27, 2020
Due Date	October 27, 2020

Student Name	Student ID	Initial
Tanvir Billah	500829695	T.B.
James Choi	500931983	J.C.
Mahamudul Islam	500963051	M.I.

\*By signing above you attest that you have contributed to this written lab report and confirm that all work you have contributed to this lab report is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at:

<http://www.ryerson.ca/senate/current/pol60.pdf>

/\*simple queries\*/

```
SELECT customer_name, customer_email  
FROM customer  
ORDER BY customer_name;
```

```
SELECT courier_name, courier_web, courier_phone  
FROM courier  
ORDER BY courier_name;
```

```
SELECT seller_name, seller_email, seller_phone, seller_address  
FROM seller  
ORDER BY seller_name;
```

```
SELECT category_name  
FROM product_category  
ORDER BY category_name;
```

```
SELECT brand_name  
FROM brand  
ORDER BY brand_name;
```

/\* join queries \*/

```
SELECT customer_name, amount, payment_type, payment_date  
FROM customer, payment  
WHERE customer.customer_id = payment.customer_id  
ORDER BY payment_date;
```

```
SELECT product_name, product_count, price, seller_name  
FROM product, seller  
WHERE product.seller_id = seller.seller_id  
ORDER BY product_name;
```

```
SELECT customer_name, cart_status, tracking_number  
FROM customer, cart, payment  
WHERE cart.payment_id = payment.payment_id  
AND payment.customer_id = customer.customer_id  
ORDER BY customer_name;
```

```
SELECT customer_name, product_name, product_amount  
FROM customer, product, contains_product, cart, payment  
WHERE contains_product.product_id = product.product_id  
AND contains_product.cart_id = cart.cart_id  
AND cart.payment_id = payment.payment_id  
AND payment.customer_id = customer.customer_id
```

```
ORDER BY customer_name;
```

```
/*views*/
```

```
--VIEWS
```

```
--Potential sale of product if you have a lot of extra inventory, amount of product is greater than the average product count of all products
```

```
CREATE VIEW products_to_put_on_sale (discounted_productName,  
discounted_productCount, original_price) AS
```


```
(SELECT product_name, product_count, price  
FROM product
```

```
WHERE product_count > (  
SELECT AVG(product_count)  
FROM product));
```

```
--Customer that bought the most vintage jackets, could be customized to show all products top shopper
```

```
CREATE VIEW VJ_Number_One_Shopper (Number_One_Customer) AS
```

```
SELECT customer_name  
FROM customer, payment, cart, contains_product
```

```
WHERE product_amount   
SELECT MAX(product_amount)
```

```
FROM contains_product  
WHERE product_id = 6)
```

```
AND product_id = 6
```

```
AND contains_product.cart_id = cart.cart_id
```

```
AND cart.payment_id = payment.payment_id
```

```
AND payment.customer_id = customer.customer_id;
```

```
--Customer's who's orders are still being processed
```

```
CREATE VIEW need_to_be_shipped(cust_name, cust_address, track_num, sell_name,  
sell_phone)AS
```

```
SELECT DISTINCT customer_name, customer_address, tracking_number, seller_name,  
seller_phone
```

```
FROM customer, payment, cart, contains_product, product, seller
```

```
WHERE cart.payment_id = payment.payment_id
```

```
AND payment.customer_id = customer.customer_id
```

```
AND cart_status = 'Processing'
```

```
AND cart.cart_id = contains_product.cart_id
```

```
AND contains_product.product_id = product.product_id
```

```
AND product.seller_id = seller.seller_id
```