

Question 5

Tables used in queries:

EMPLOYEE

```
CREATE TABLE EMPLOYEE
(
    EID INT PRIMARY KEY NOT NULL,
    ENAME VARCHAR(20) NOT NULL,
    EMPLOYMENTDATE DATE NOT NULL
)
```

CLOTHINGMODEL

```
CREATE TABLE CLOTHINGMODEL
(
    MODELNAME VARCHAR(30) PRIMARY KEY NOT NULL,
    SEX VARCHAR(1) NOT NULL,
    AGERANGE VARCHAR(10),
    MODELDISCOUNT INT DEFAULT 0,
    PRICE FLOAT(53) NOT NULL,
    CATID INT NOT NULL,
    CONSTRAINT CLOTHINGMODEL_CLOTHINGCATEGORY_CATID_FK FOREIGN KEY (CATID) REFERENCES
CLOTHINGCATEGORY (CATID)
);
COMMENT ON COLUMN CLOTHINGMODEL.MODELDISCOUNT IS 'Percentage Values'
```

CARTDETAILS

```
CREATE TABLE CARTDETAILS
(
    CARTID INT NOT NULL,
    COLOR VARCHAR(15) NOT NULL,
    SIZE VARCHAR(10) NOT NULL,
    MODELNAME VARCHAR(30) NOT NULL,
    QUANTITY INT DEFAULT 1 NOT NULL,
    CONSTRAINT CARTDETAILS_CARTID_COLOR_SIZE_MODELNAME_PK PRIMARY KEY (CARTID, COLOR, SIZE,
MODELNAME),
    CONSTRAINT CARTDETAILS_SHOPPINGCART_CARTID_FK FOREIGN KEY (CARTID) REFERENCES SHOPPINGCART
(CARTID),
    CONSTRAINT CARTDETAILS_CLOTHINGUNIT_COLOR_SIZE_MODELNAME_FK FOREIGN KEY (SIZE) REFERENCES
CLOTHINGUNIT (SIZE)
)
```

CLOTHINGCATEGORY

```
CREATE TABLE CLOTHINGCATEGORY
(
    CATID INT PRIMARY KEY NOT NULL,
    CATNAME VARCHAR(50) NOT NULL,
```

```

CATTYTYPE VARCHAR(20) NOT NULL,
CATEGORYDISCOUNT INT DEFAULT 0 NOT NULL
);
COMMENT ON COLUMN CLOTHINGCATEGORY.CATEGORYDISCOUNT IS 'Displayed as percentage'

```

ORDER

CREATE TABLE ORDER

```

(
    ORDERID INT PRIMARY KEY NOT NULL,
    ORDERTYPE VARCHAR(10) NOT NULL,
    PAYMENTMETHOD VARCHAR(20) NOT NULL,
    ORDERDATE DATE DEFAULT CURRENT DATE NOT NULL,
    FINALAMOUNT FLOAT(53) NOT NULL,
    CUSTOMEREMAIL VARCHAR(100) NOT NULL,
    HANDLEDATE DATE,
    HANDLER INT,
    SHIPPINGID INT,
    BILLINGID INT,
    CARTID INT,
    TRACKINGNUMBER VARCHAR(13),
    CONSTRAINT ORDER_CUSTOMER_EMAIL_FK FOREIGN KEY (CUSTOMEREMAIL) REFERENCES CUSTOMER
    (EMAIL),
    CONSTRAINT ORDER_EMPLOYEE_EID_FK FOREIGN KEY (HANDLER) REFERENCES EMPLOYEE (EID),
    CONSTRAINT ORDER_SHIPPINGADDRESS_SA_ID_FK FOREIGN KEY (SHIPPINGID) REFERENCES
    SHIPPINGADDRESS (SA_ID),
    CONSTRAINT ORDER_BILLINGADDRESS_BA_ID_FK FOREIGN KEY (BILLINGID) REFERENCES BILLINGADDRESS
    (BA_ID),
    CONSTRAINT ORDER_SHOPPINGCART_CARTID_FK FOREIGN KEY (CARTID) REFERENCES SHOPPINGCART
    (CARTID),
    CONSTRAINT ORDER_SHIPPINGINFO_TRACKINGNUMBER_FK FOREIGN KEY (TRACKINGNUMBER) REFERENCES
    SHIPPINGINFO (TRACKINGNUMBER)
);
COMMENT ON COLUMN ORDER.ORDERTYPE IS 'PURCHASE or REFUND';
COMMENT ON COLUMN ORDER.PAYMENTMETHOD IS 'VISA/MASTERCARD/AMERICAN
EXPRESS/PAYPAL/INTERAC';
COMMENT ON COLUMN ORDER.SHIPPINGID IS 'Shipping Address ID';
COMMENT ON COLUMN ORDER.BILLINGID IS 'Billing Address ID';
COMMENT ON COLUMN ORDER.CARTID IS 'Shopping Cart ID'

```

UNITSTOCKING

CREATE TABLE UNITSTOCKING

```

(
    MODELNAME VARCHAR(30) NOT NULL,
    QUANTITYAVAILABLE INT NOT NULL,
    LOCATION VARCHAR(20) NOT NULL,
    COLOR VARCHAR(15) NOT NULL,
    SIZE VARCHAR(10) NOT NULL,
    CONSTRAINT UNITSTOCKING_COLOR_SIZE_PK PRIMARY KEY (COLOR, MODELNAME, SIZE, LOCATION),
    CONSTRAINT UNITSTOCKING_WAREHOUSE_LOCATION_FK FOREIGN KEY (LOCATION) REFERENCES
    WAREHOUSE (LOCATION)
)

```





);

COMMENT ON COLUMN UNITSTOCKING.QUANTITYAVAILABLE IS 'Current Stock';

Queries

- 1) Description: This query selects all the employees that have started working from the date 2016-01-01 or later

```
SELECT * FROM EMPLOYEE WHERE EMPLOYMENTDATE >= DATE '2016-01-01';
```

| |  EID |  ENAME |  EMPLOYMENTDATE |  SALARY |
|----|---|---|--|--|
| 1 | 2435 | Jeanne-Marie Gagnon | 2016-12-12 | 74539 |
| 2 | 3654 | Macaulay Mcguire | 2016-08-29 | 71160 |
| 3 | 4525 | Molly Conley | 2016-02-18 | 188977 |
| 4 | 4881 | Grace Dixon | 2016-07-28 | 121275 |
| 5 | 1903 | Ariel Bryan | 2016-04-10 | 184335 |
| 6 | 1374 | Cecilia Fleming | 2016-08-13 | 142037 |
| 7 | 5011 | Dai Gonzalez | 2017-02-05 | 123421 |
| 8 | 5007 | Paula Fox | 2017-01-04 | 49055 |
| 9 | 5008 | Jena Grimes | 2017-01-07 | 69523 |
| 10 | 5009 | Upton Mclean | 2017-01-29 | 163472 |
| 11 | 5010 | Rinah Morgan | 2017-02-10 | 162589 |

- 2) Description: This query selects all the items from the carts of id 5000 and 5007, and outputs what items are in each cart. The query is an inner join of order, clothing model, and cart details.

```
SELECT CLOTHINGMODEL.PRICE, MYORDERID, MYCARTID, MYORDERTYPE, MYORDERDATE, MYCOLOR,  
MYMODELNAME, MYSIZE  
FROM CLOTHINGMODEL INNER JOIN (  
  SELECT ORDER.ORDERID AS MYORDERID, ORDER.CARTID AS MYCARTID, ORDER.ORDERTYPE AS  
  MYORDERTYPE, ORDER.ORDERDATE AS MYORDERDATE, CARTDETAILS.COLOR AS MYCOLOR,  
  CARTDETAILS.MODELNAME AS MYMODELNAME, CARTDETAILS.SIZE AS MYSIZE  
  FROM ORDER INNER JOIN CARTDETAILS  
  ON ORDER.CARTID = CARTDETAILS.CARTID  
  WHERE (ORDER.CARTID = 5000 OR ORDER.CARTID = 5007))  
ON CLOTHINGMODEL.MODELNAME = MYMODELNAME;
```

| | PRICE | MYORDERID | MYCARTID | MYORDERTYPE | MYORDERDATE | MYCOLOR | MYMODELNAME | MYSIZE |
|----|--------|-----------|----------|-------------|-------------|---------|------------------------|--------|
| 1 | 99.99 | 1000 | 5000 | PURCHASE | 2016-03-28 | BLUE | Adidas Gloro 16.1 FG | 40 |
| 2 | 99.99 | 1000 | 5000 | PURCHASE | 2016-03-28 | YELLOW | Adidas Gloro 16.1 FG | 44 |
| 3 | 99.99 | 1000 | 5000 | PURCHASE | 2016-03-28 | RED | Adidas Gloro 16.1 FG | 42 |
| 4 | 45 | 1000 | 5000 | PURCHASE | 2016-03-28 | BLUE | Nike Tiempo Rio III FG | 40 |
| 5 | 45 | 1000 | 5000 | PURCHASE | 2016-03-28 | GREEN | Nike Tiempo Rio III FG | 46 |
| 6 | 429.99 | 1000 | 5000 | PURCHASE | 2016-03-28 | BLACK | Canada Goose Women | M |
| 7 | 429.99 | 1007 | 5007 | PURCHASE | 2017-01-07 | GREEN | Canada Goose Women | M |
| 8 | 429.99 | 1000 | 5000 | PURCHASE | 2016-03-28 | RED | Canada Goose Women | M |
| 9 | 28.59 | 1007 | 5007 | PURCHASE | 2017-01-07 | BLUE | Summer Breeze 2017 | M |
| 10 | 28.59 | 1007 | 5007 | PURCHASE | 2017-01-07 | YELLOW | Summer Breeze 2017 | L |
| 11 | 28.59 | 1007 | 5007 | PURCHASE | 2017-01-07 | GREEN | Summer Breeze 2017 | M |
| 12 | 40.99 | 1007 | 5007 | PURCHASE | 2017-01-07 | BLUE | Slim Fit | M |
| 13 | 40.99 | 1007 | 5007 | PURCHASE | 2017-01-07 | WHITE | Slim Fit | L |
| 14 | 40.99 | 1007 | 5007 | PURCHASE | 2017-01-07 | BLUE | Slim Fit | S |

- 3) Description: This query selects all the category names from clothing category whose catid is not in our subquery. Our subquery selects all clothing categories with ID's between 1000 and 4000, so our final query will select all clothing categories NOT between 1000 and 4000.

```
SELECT CATNAME FROM CLOTHINGCATEGORY WHERE CATID NOT IN (SELECT CATID FROM CLOTHINGMODEL WHERE CATID BETWEEN 1000 and 4000);
```

| | CATNAME |
|----|------------|
| 1 | Blazer |
| 2 | Dress |
| 3 | V neck |
| 4 | Running |
| 5 | Boots |
| 6 | Scarves |
| 7 | Gloves |
| 8 | Socks |
| 9 | Belts |
| 10 | Sunglasses |
| 11 | Jewelery |
| 12 | Suspenders |
| 13 | Beanies |
| 14 | Caps |

- 4) Description: This query selects all the refunds that customers made and the average amount per refund

```
SELECT AVG(FINALAMOUNT) AS AVERAGEREFUND, COUNT(*) as COUNT FROM ORDER WHERE ORDERTYPE = 'REFUND';
```

| | AVERAGEREFUND | COUNT |
|---|--------------------|-------|
| 1 | 334.07319999999999 | 50 |

- 5) Description: With this query, we can see the total stock we have in each warehouse location

```
SELECT SUM(QUANTITYAVAILABLE), LOCATION  
FROM UNITSTOCKING  
WHERE QUANTITYAVAILABLE > 0  
GROUP BY LOCATION;
```

| | 1 | LOCATION |
|---|------|---------------|
| 1 | 5651 | MONTREAL |
| 2 | 4911 | NEW YORK CITY |
| 3 | 4492 | PARIS |
| 4 | 4324 | TORONTO |