DATABASE PROJECT – REPORT 2

CSC 675.02

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Task 1: Tables, Indexes, and Constraints

Here we have created our tables (six in total) with all constraints implemented. Furthermore we have created two indexes (merchandise_index & clothes_index), which ultimately helped to speed up the data retrieving process.

```
-- ************************ Task 1 ************************
CREATE TABLE employee (
    eID INT NOT NULL,
    eFName VARCHAR(50) NOT NULL,
    eLName VARCHAR(50) NOT NULL,
    ePosition VARCHAR(30) DEFAULT NULL,
    wage REAL NOT NULL,
    PRIMARY KEY(eID)
);

CREATE TABLE customer (
    membershipID INT NOT NULL,
    cFName VARCHAR(50) NOT NULL,
    cLName VARCHAR(50) NOT NULL,
    billingAddress varchar(200) NOT NULL,
    phoneNumber VARCHAR(12) NOT NULL,
    PRIMARY KEY(membershipID)
);

CREATE TABLE merchandise (
    mID INT NOT NULL,
    mCategory VARCHAR(50) NOT NULL,
    mPrice DECIMAL(7,2) NOT NULL,
    mQuantity INT,
    PRIMARY KEY(mID)
);

CREATE TABLE clothes (
    cID INT NOT NULL,
    mID INT,
    cCategory VARCHAR(50),
    cBrand VARCHAR(100) NOT NULL,
    cName VARCHAR(200) NOT NULL,
    PRIMARY KEY(cID),
    FOREIGN KEY(mID) REFERENCES merchandise(mID)
);

CREATE TABLE accessories (
    aID INT NOT NULL,
    mID INT,
    aBrand VARCHAR(50) NOT NULL,
    aName VARCHAR(150) NOT NULL,
    PRIMARY KEY(aID),
    FOREIGN KEY(mID) REFERENCES merchandise(mID)
);

CREATE TABLE transaction (
    tID INT NOT NULL,
    membershipID INT,
    mID INT,
    eID INT,
    tQuantity INT,
    tDate DATE,
    PRIMARY KEY(tID),
    FOREIGN KEY(mID) REFERENCES merchandise(mID),
    FOREIGN KEY(membershipID) REFERENCES customer(membershipID),
    FOREIGN KEY(eID) REFERENCES employee(eID)
);

CREATE INDEX merchandise_index
ON merchandise(mCategory);

CREATE INDEX clothes_index
ON clothes(cCategory, cBrand, cName);
```

Task 2: Collection and Insertion of Data

Our second step was to collect data for our database. This was achieved through various online sources such as randomlists.com, fakeaddressgenerator.com, and Macy's.com.

```
-- ************************ Task 2 ************************
INSERT INTO employee VALUES(001, 'Elliott', 'Beasley', 'Manager', 65000.0);
INSERT INTO employee VALUES(002, 'Chaz', 'Wiley', 'Assistant Manager', 50000.0);
INSERT INTO employee VALUES(003, 'Mackenzie', 'Burke', 'Sales Associate', 38000.0);
INSERT INTO employee VALUES(004, 'Kaleb', 'Kennedy', 'Sales Associate', 38000.0);
INSERT INTO employee VALUES(005, 'Karlee', 'Francis', 'Sales Associate', 38000.0);
INSERT INTO employee VALUES(006, 'Alec', 'Rich', 'Cashier', 35000.0);
INSERT INTO employee VALUES(007, 'Sidney', 'Curry', 'Cashier', 35000.0);
INSERT INTO employee VALUES(008, 'Jaylan', 'Conner', 'Cashier', 35000.0);
INSERT INTO employee VALUES(009, 'Blake', 'Osborne', 'Cashier', 35000.0);
INSERT INTO employee VALUES(010, 'Liliana', 'Little', 'Stocking Associate', 34000.0);
INSERT INTO employee VALUES(011, 'Paulina', 'Shepard', 'Stocking Associate', 34000.0);
INSERT INTO employee VALUES(012, 'Micaela', 'Good', 'Customer Service Associate', 39000.0);
INSERT INTO employee VALUES(013, 'Armani', 'West', 'Customer Service Associate', 39000.0);
INSERT INTO employee VALUES(014, 'Zackery', 'Weaver', 'Janitor', 37000.0);

INSERT INTO customer VALUES(001, 'Rosemary', 'Steele', '3538 Ella Street, Oakland, CA 94607', '650-271-5016');
INSERT INTO customer VALUES(002, 'Ulises', 'Porter', '355 Riverwood Drive, Placerville, CA 95667', '530-344-5152');
INSERT INTO customer VALUES(003, 'Porter', 'Sanchez', '3204 Hillcrest Lane, Anaheim, CA 92805', '949-944-4411');
INSERT INTO customer VALUES(004, 'Braiden', 'Hodge', '4393 Sycamore Street, Santa Clara, CA 95054', '408-919-1668');
INSERT INTO customer VALUES(005, 'Kyla', 'Ortiz', '2923 Evergreen Lane, Pomona, CA 91766', '323-537-2905');
INSERT INTO customer VALUES(006, 'Steven', 'Allison', '3066 Cemetery Street, Salinas, CA, 93901', '831-785-5434');
INSERT INTO customer VALUES(007, 'Julio', 'Estrada', '1442 Middleville Road, City of Commerce, CA 90040', '626-353-8584');
INSERT INTO customer VALUES(008, 'Eve', 'Porter', '2295 Riverwood Drive, Redding, CA, 96001', '530-361-6378');
INSERT INTO customer VALUES(009, 'Reina', 'Bradford', '2140 Dennison Street, French Camp, CA 95231', '209-534-7094');
INSERT INTO customer VALUES(010, 'Camron', 'Richard', '4390 Red Maple Drive, Los Angeles, CA 90017', '323-432-9385');
INSERT INTO customer VALUES(011, 'Humberto', 'Wilkerson', '4348 Prospect Valley Road, Los Angeles, CA 90017', '310-969-7243');
INSERT INTO customer VALUES(012, 'Joy', 'Randolph', '2429 Parkway Street, Palm Springs, CA 92262', '760-238-3626');
INSERT INTO customer VALUES(013, 'Jay', 'Macias', '780 Timber Oak Drive, San Luis Obispo, CA 93401', '805-945-3290');
INSERT INTO customer VALUES(014, 'Carly', 'Riggs', '3066 Nickel Road, Los Angeles, CA, 90017', '626-737-5689');
INSERT INTO customer VALUES(015, 'Quentin', 'Blevins', '4348 Prospect Valley Road, Los Angeles, CA 90017', '310-969-7243');
INSERT INTO customer VALUES(016, 'Briana', 'Gomez', '3180 Pin Oak Drive, La Habra, CA, 90631', '562-905-4414');
INSERT INTO customer VALUES(017, 'Guadalupe', 'Meyer', '134 Cemetery Street, Oakland, CA 94612', '831-854-9471');
INSERT INTO customer VALUES(018, 'Journey', 'Goodman', '1643 Park Avenue, Sacramento, CA 95814', '916-447-1911');
INSERT INTO customer VALUES(019, 'Courtney', 'Oconnor', '1885 Haul Road, Fremont, CA 94538', '510-3710274');
INSERT INTO customer VALUES(020, 'Cory', 'Gill', '2012 Creekside Lane, Goleta, CA 93117', '805-681-0153');
INSERT INTO customer VALUES(021, 'Shayla', 'Mcknight', '2966 Fairway Drive, Crescent City, CA 95531', '707-464-9649');
INSERT INTO customer VALUES(022, 'Kate', 'Kemp', '12931 Bel Air Avenue, Los Angeles, CA 90017', '310-339-1321');
INSERT INTO customer VALUES(023, 'Maia', 'Houston', '522 Sycamore Street, San Jose, CA 95131', '408-922-6381');
INSERT INTO customer VALUES(024, 'Landyn', 'Baldwin', '3656 Alexander Avenue, San Rafael, CA 94901', '925-621-2722');
INSERT INTO customer VALUES(025, 'Corey', 'Farley', '3001 Liberty Avenue, Anaheim, CA 92804', '714-503-4440');
INSERT INTO customer VALUES(026, 'Kaleigh', 'Vega', '828 Coleman Avenue, Palm Springs, CA 92262', '760-820-6931');

INSERT INTO merchandise VALUES(001, 'T-Shirts', 69.99, 9);
INSERT INTO merchandise VALUES(002, 'T-Shirts', 44.99, 17);
INSERT INTO merchandise VALUES(003, 'T-Shirts', 29.99, 11);
INSERT INTO merchandise VALUES(004, 'T-Shirts', 9.99, 3);
INSERT INTO merchandise VALUES(005, 'Jeans', 64.99, 23);
INSERT INTO merchandise VALUES(006, 'Jeans', 49.99, 8);
INSERT INTO merchandise VALUES(007, 'Jeans', 21.50, 19);
INSERT INTO merchandise VALUES(008, 'Jeans', 34.95, 2);
INSERT INTO merchandise VALUES(009, 'Jeans', 59.99, 14);
INSERT INTO merchandise VALUES(010, 'Shirts', 35.99, 1);
INSERT INTO merchandise VALUES(011, 'Shirts', 49.99, 12);
INSERT INTO merchandise VALUES(012, 'Shirts', 19.99, 43);
INSERT INTO merchandise VALUES(013, 'Shirts', 25.50, 54);
INSERT INTO merchandise VALUES(014, 'Pants', 59.99, 12);
INSERT INTO merchandise VALUES(015, 'Pants', 34.50, 14);
```

```
INSERT INTO merchandise VALUES(016, 'Pants', 21.00, 4);
INSERT INTO merchandise VALUES(017, 'Pants', 79.00, 31);
INSERT INTO merchandise VALUES(018, 'Pants', 45.00, 23);
INSERT INTO merchandise VALUES(019, 'Jackets', 90.00, 6);
INSERT INTO merchandise VALUES(020, 'Jackets', 21.99, 16);
INSERT INTO merchandise VALUES(021, 'Jackets', 49.99, 12);
INSERT INTO merchandise VALUES(022, 'Hoodies', 45.99, 15);
INSERT INTO merchandise VALUES(023, 'Hoodies', 34.99, 25);
INSERT INTO merchandise VALUES(024, 'Hoodies', 25.99, 1);
INSERT INTO merchandise VALUES(025, 'Sweaters', 99.99, 5);
INSERT INTO merchandise VALUES(026, 'Sweaters', 45.50, 7);
INSERT INTO merchandise VALUES(027, 'Purses', 290.00, 3);
INSERT INTO merchandise VALUES(028, 'Purses', 60.00, 12);
INSERT INTO merchandise VALUES(029, 'Wallets', 71.95, 8);
INSERT INTO merchandise VALUES(030, 'Wallets', 21.99, 4);
INSERT INTO merchandise VALUES(031, 'Belts', 120.00, 3);
INSERT INTO merchandise VALUES(032, 'Belts', 15.99, 12);
INSERT INTO merchandise VALUES(033, 'Hats', 23.95, 7);
INSERT INTO merchandise VALUES(034, 'Hats', 49.99, 3);
INSERT INTO merchandise VALUES(035, 'Gloves', 89.99, 23);
INSERT INTO merchandise VALUES(036, 'Gloves', 32.50, 1);

INSERT INTO clothes VALUES(001, 001, 'Crewneck', 'Nike', 'Unisex Dri-FIT Long-Sleeve Running T-Shirt');
INSERT INTO clothes VALUES(002, 002, 'Thermal', 'Polo Ralph Lauren', 'Mens Ultra Soft Waffle-Knit Thermal T-Shirt');
INSERT INTO clothes VALUES(003, 003, 'Henley', 'Liz Claiborne', 'Womens Garment Dyed Henley T-Shirt');
INSERT INTO clothes VALUES(004, 004, 'V-Neck', 'Calvin Klein', 'Mens Short-Sleeve Casual V-Neck T-Shirt');
INSERT INTO clothes VALUES(005, 005, 'Skinny', 'INC International Concepts', 'Womens INCEssentials Curvy-Fit Skinny Jeans');
INSERT INTO clothes VALUES(006, 006, 'Straight', 'Charter Club', 'Womens Lexington Straight-Leg Jeans');
INSERT INTO clothes VALUES(007, 007, 'Bootcut', 'Liverpool Jeans', 'Womens Lucy Bootcut Jeans');
INSERT INTO clothes VALUES(008, 008, 'Slim Fit', 'Levis', 'Mens 511 Slim Fit Jeans');
INSERT INTO clothes VALUES(009, 009, 'Tapered', 'Wrangler', 'Mens Regular Fit Tapered Leg Jeans');
INSERT INTO clothes VALUES(010, 010, 'Casual', 'Polo Ralph Lauren', 'Mens Classic Fit Performance Twill Shirt');
INSERT INTO clothes VALUES(011, 011, 'Dress', 'Alfani', 'Mens Classic Slim-Fit Performance Shirt');
INSERT INTO clothes VALUES(012, 012, 'Dress', 'Stafford', 'Womens Classic Fit Performance Shirt');
INSERT INTO clothes VALUES(013, 013, 'Casual', 'Forever 21', 'Womens Casual Button Down Shirt');
INSERT INTO clothes VALUES(014, 014, 'Dress', 'Alfani', 'Mens Classic-Fit Solid Linen Dress Pants');
INSERT INTO clothes VALUES(015, 015, 'Leggings', 'Nike', 'Womens Dri-FIT Compression Tights');
INSERT INTO clothes VALUES(016, 016, 'Joggers', 'Nike', 'Mens Dri-FIT Performance Joggers');
INSERT INTO clothes VALUES(017, 017, 'Sweatpants', 'Adidas', 'Mens 3 Stripe Straight Sweatpants');
INSERT INTO clothes VALUES(018, 018, 'Track', 'Under Armour', 'Womens Running High Performance Running Track Pants');
INSERT INTO clothes VALUES(019, 019, 'Raincoat', 'The North Face', 'Mens Resolve 2 Waterproof Jacket');
```

```
INSERT INTO clothes VALUES(020, 020, 'Active', 'Champion', 'Womens Packable Half-Zip Hooded Water-Resistant Jacket');
INSERT INTO clothes VALUES(021, 021, 'Demin', 'Levis', 'Mens Demin Trucker Jacket');
INSERT INTO clothes VALUES(022, 022, 'Pullover', 'GUESS', 'Mens Go Field Colorblocked Stripe Logo Pullover');
INSERT INTO clothes VALUES(023, 023, 'Crewneck', 'Nike', 'Womens Dri-FIT High Performance Crewneck');
INSERT INTO clothes VALUES(024, 024, 'Half-Zip', 'Adidas', 'Mens High Performance Half-Zip Hoodie');
INSERT INTO clothes VALUES(025, 025, 'Cardigan', 'Perry Ellis', 'Mens V-Neck Cardigan Sweater');
INSERT INTO clothes VALUES(026, 026, 'Crewneck', 'Tommy Hilfiger', 'Womens Flag Colorblocked Crewneck Sweater');

INSERT INTO accessories VALUES(001, 027, 'COACH', 'Floral Highline Tote');
INSERT INTO accessories VALUES(002, 028, 'Buxton', 'Chelsea RFID Ensemble Clutch');
INSERT INTO accessories VALUES(003, 029, 'GUESS', 'Pomona RFID Leather Wallet');
INSERT INTO accessories VALUES(004, 030, 'Levis', 'RFID Extra-Capacity Leather Wallet');
INSERT INTO accessories VALUES(005, 031, 'Perry Ellis', 'Mens Leather Amigo Dress Belt');
INSERT INTO accessories VALUES(006, 032, 'Hugo Boss', 'Mens Gellot Leather Belt');
INSERT INTO accessories VALUES(007, 033, 'Nine West', 'Womens Floppy Hat');
INSERT INTO accessories VALUES(008, 034, 'Nike', 'Mens Sportswear Cap');
INSERT INTO accessories VALUES(009, 035, 'Nike', 'Mens Dri-FIT Gym Gloves');
INSERT INTO accessories VALUES(010, 036, 'Nike', 'Womens Dri-FIT Gym Gloves');

INSERT INTO transaction VALUES(001, 001, 021, 006, 1, '2019-04-01');
INSERT INTO transaction VALUES(002, 002, 011, 007, 3, '2019-04-01');
INSERT INTO transaction VALUES(003, 003, 026, 008, 1, '2019-04-01');
INSERT INTO transaction VALUES(004, 004, 014, 008, 1, '2019-04-01');
INSERT INTO transaction VALUES(005, 005, 003, 008, 2, '2019-04-01');
INSERT INTO transaction VALUES(006, 006, 005, 009, 2, '2019-04-01');
INSERT INTO transaction VALUES(007, 007, 009, 009, 3, '2019-04-02');
INSERT INTO transaction VALUES(008, 008, 010, 006, 2, '2019-04-02');
INSERT INTO transaction VALUES(009, 009, 022, 006, 1, '2019-04-02');
INSERT INTO transaction VALUES(010, 010, 030, 007, 1, '2019-04-02');
INSERT INTO transaction VALUES(011, 011, 036, 005, 5, '2019-04-02');
INSERT INTO transaction VALUES(012, 012, 001, 003, 3, '2019-04-02');
INSERT INTO transaction VALUES(013, 013, 001, 003, 2, '2019-04-02');
INSERT INTO transaction VALUES(014, 014, 001, 003, 1, '2019-04-02');
INSERT INTO transaction VALUES(015, 015, 006, 006, 1, '2019-04-03');
INSERT INTO transaction VALUES(016, 016, 016, 006, 1, '2019-04-03');
INSERT INTO transaction VALUES(017, 017, 024, 006, 1, '2019-04-03');
INSERT INTO transaction VALUES(018, 018, 014, 009, 1, '2019-04-03');
INSERT INTO transaction VALUES(019, 019, 017, 009, 1, '2019-04-03');
INSERT INTO transaction VALUES(020, 020, 027, 008, 1, '2019-04-03');
INSERT INTO transaction VALUES(021, 021, 035, 008, 4, '2019-04-03');
INSERT INTO transaction VALUES(022, 022, 023, 008, 3, '2019-04-04');
```

```
206 INSERT INTO transaction VALUES(023, 023, 004, 007, 2, '2019-04-04');
207 INSERT INTO transaction VALUES(024, 024, 017, 007, 1, '2019-04-04');
208 INSERT INTO transaction VALUES(025, 025, 023, 007, 1, '2019-04-04');
209 INSERT INTO transaction VALUES(026, 026, 005, 005, 1, '2019-04-04');
210
```

Task 3: SQL Queries

Below are the queries we wrote (eight in total). These include multiple uses of GROUP BY, HAVING, and aggregate operator. Moreover there are three nested queries that make use of IN, EXISTS, and NOT IN.
Specific uses of these queries are explained below.

```sql
-- ************************ Task 3 ************************
-- This query is used to retrieve the count of each clothes brand
SELECT COUNT(*), cBrand
FROM clothes
GROUP BY cBrand;

-- This query is used to retrieve the average price of the merchandise
SELECT AVG(mPrice)
FROM merchandise;

-- This query is used to retrieve the count of how many Joggers or Sweatpants are available
SELECT cCategory, COUNT(*)
FROM clothes
GROUP BY cCategory
HAVING cCategory = 'Joggers' OR
       cCategory = 'Sweatpants';

-- This query is used to retrieve merchandise ID column from the merchandise table and the clothes name column from the clothes table
SELECT mID, cName
FROM clothes
WHERE mID IN (
    SELECT mID
    FROM merchandise
);

-- This query is used to retrieve the merchandise ID and the price of the accessories
SELECT m.mID AS merchID, mPrice AS accPrice
FROM merchandise m, accessories a
WHERE EXISTS (
    SELECT *
    FROM accessories a
    WHERE a.mID = m.mID
);

-- This query is used to retrieve the first name and last name of all employees that did not make a transaction
SELECT e.eFName AS EmployeeFirstName, e.eLName AS EmployeeLastName
FROM employee e
WHERE e.eID NOT IN (
    SELECT t.eID
    FROM transaction t
);

-- This query is used to retrieve all merchandise that is under 5 in quantity
SELECT *
FROM merchandise merchandise_index
WHERE mQuantity < 5;

-- This query is used to retrieve the indexed clothes table
SELECT *
FROM clothes clothes_index;
```

Task 4: Results of Queries

Below are our results for the queries in task 3.

The database management system we used for this project was PostgreSQL. We downloaded the postgres.app and then downloaded PSequel as our graphical user interface because using the command line tool was a little challenging.

PostgreSQL 11
Postgres.app (Version 2.2.2 (51))
PSequel (Version 1 (1.5.3))

```
212 -- This query is used to retrieve the count of each clothes brand
213 SELECT COUNT(*), cBrand
214 FROM clothes
215 GROUP BY cBrand;
216
```

Query History

count	cbrand
1	The North Face
2	Alfani
2	Polo Ralph Lauren
1	Tommy Hilfiger
1	Forever 21
1	Perry Ellis
1	GUESS
1	Wrangler
1	Stafford
1	Charter Club
4	Nike
1	Champion
1	Liz Claiborne
2	Levis
2	Adidas
1	Liverpool Jeans
1	Calvin Klein
1	Under Armour
1	INC International Concepts

```
-- This query is used to retrieve the average price of the merchandise
SELECT AVG(mPrice)
FROM merchandise;
```

Query History

avg
54.115

```
-- This query is used to retrieve the count of how many Joggers or Sweatpants are available
SELECT cCategory, COUNT(*)
FROM clothes
GROUP BY cCategory
HAVING cCategory = 'Joggers' OR
       cCategory = 'Sweatpants';
```

Query History

ccategory	count
Joggers	1
Sweatpants	1

```
-- This query is used to retrieve merchandise ID column from the merchandise table and the clothes name column from the clothes table
SELECT mID, cName
FROM clothes
WHERE mID IN (
    SELECT mID
    FROM merchandise
);
```

Query History Run

mid	cname
1	Unisex Dri-FIT Long-Sleeve Ru…
2	Mens Ultra Soft Waffle-Knit The…
3	Womens Garment Dyed Henle…
4	Mens Short-Sleeve Casual V-N…
5	Womens INCEssentials Curvy-…
6	Womens Lexington Straight-Le…
7	Womens Lucy Bootcut Jeans
8	Mens 511 Slim Fit Jeans
9	Mens Regular Fit Tapered Leg…
10	Mens Classic Fit Performance…
11	Mens Classic Slim-Fit Performa…
12	Womens Classic Fit Performan…
13	Womens Casual Button Down…
14	Mens Classic-Fit Solid Linen Dr…
15	Womens Dri-FIT Compression…
16	Mens Dri-FIT Performance Jog…
17	Mens 3 Stripe Straight Sweatpa…
18	Womens Running High Perfor…
19	Mens Resolve 2 Waterproof Ja…
20	Womens Packable Half-Zip Ho…
21	Mens Demin Trucker Jacket
22	Mens Go Field Colorblocked St…
23	Womens Dri-FIT High Performa…
24	Mens High Performance Half-Zi…
25	Mens V-Neck Cardigan Sweater
26	Womens Flag Colorblocked Cr…

26 row(s) affected, took 1.2ms

```sql
-- This query is used to retrieve the merchandise ID and the price of the accessories
SELECT m.mID AS merchID, mPrice AS accPrice
FROM merchandise m, accessories a
WHERE EXISTS (
    SELECT *
    FROM accessories a
    WHERE a.mID = m.mID
);
```

Query History

merchid	accprice
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
27	290.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
28	60.0
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
29	71.95
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
30	21.99
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
31	120.0
32	15.99
32	15.99
32	15.99
32	15.99
32	15.99

32	15.99	
32	15.99	
32	15.99	
32	15.99	
32	15.99	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
33	23.95	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
34	49.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
35	89.99	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	
36	32.5	

```
245 -- This query is used to retrieve the first name and last name of all employees that did not make a transaction
246 SELECT e.eFName AS EmployeeFirstName, e.eLName AS EmployeeLastName
247 FROM employee e
248 WHERE e.eID NOT IN (
249     SELECT t.eID
250     FROM transaction t
251 );
```

Query History

employeefirstname	employeelastname
Elliott	Beasley
Chaz	Wiley
Kaleb	Kennedy
Liliana	Little
Paulina	Shepard
Micaela	Good
Armani	West
Zackery	Weaver

```
253 -- This query is used to retrieve all merchandise that is under 5 in quantity
254 SELECT *
255 FROM merchandise merchandise_index
256 WHERE mQuantity < 5;
```

Query History

mid	mcategory	mprice	mquantity
4	T-Shirts	9.99	3
8	Jeans	34.95	2
10	Shirts	35.99	1
16	Pants	21.0	4
24	Hoodies	25.99	1
27	Purses	290.0	3
30	Wallets	21.99	4
31	Belts	120.0	3
34	Hats	49.99	3
36	Gloves	32.5	1

```
258 -- This query is used to retrieve the indexed clothes table
259 SELECT *
260 FROM clothes clothes_index;
```

Query History

cid	mid	ccategory	cbrand	cname
1	1	Crewneck	Nike	Unisex Dri-FIT Long-Sleeve Ru…
2	2	Thermal	Polo Ralph Lauren	Mens Ultra Soft Waffle-Knit The…
3	3	Henley	Liz Claiborne	Womens Garment Dyed Henle…
4	4	V-Neck	Calvin Klein	Mens Short-Sleeve Casual V-N…
5	5	Skinny	INC International Concepts	Womens INCEssentials Curvy-…
6	6	Straight	Charter Club	Womens Lexington Straight-Le…
7	7	Bootcut	Liverpool Jeans	Womens Lucy Bootcut Jeans
8	8	Slim Fit	Levis	Mens 511 Slim Fit Jeans
9	9	Tapered	Wrangler	Mens Regular Fit Tapered Leg…
10	10	Casual	Polo Ralph Lauren	Mens Classic Fit Performance…
11	11	Dress	Alfani	Mens Classic Slim-Fit Performa…
12	12	Dress	Stafford	Womens Classic Fit Performan…
13	13	Casual	Forever 21	Womens Casual Button Down…
14	14	Dress	Alfani	Mens Classic-Fit Solid Linen Dr…
15	15	Leggings	Nike	Womens Dri-FIT Compression…
16	16	Joggers	Nike	Mens Dri-FIT Performance Jog…
17	17	Sweatpants	Adidas	Mens 3 Stripe Straight Sweatpa…
18	18	Track	Under Armour	Womens Running High Perfor…
19	19	Raincoat	The North Face	Mens Resolve 2 Waterproof Ja…
20	20	Active	Champion	Womens Packable Half-Zip Ho…
21	21	Demin	Levis	Mens Demin Trucker Jacket
22	22	Pullover	GUESS	Mens Go Field Colorblocked St…
23	23	Crewneck	Nike	Womens Dri-FIT High Performa…
24	24	Half-Zip	Adidas	Mens High Performance Half-Zi…
25	25	Cardigan	Perry Ellis	Mens V-Neck Cardigan Sweater
26	26	Crewneck	Tommy Hilfiger	Womens Flag Colorblocked Cr…