

# **CPS510 Assignment 4: Advanced Queries**

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### Query 1

--WORKER--

```
SELECT WRKR.WRKR_EMPID, CUST.NAME, CUST.CUSTOMERID
FROM WRKR
INNER JOIN CUST
ON WRKR.WRKR_EMPID = CUST.WRKR_EMPID
```

	WRKR_EMPID	NAME	CUSTOMERID
1	235	Nathan Kim	14
2	235	Alex Jones	15
3	236	Annie Chao	16
4	237	Jackson Han	17
5	238	Katie Marsh	18
6	36	Danish Sheikh	29
7	12	Katie Marsh	18
8	13	Arman Aujla	19
9	14	Omar Malik	20
10	16	Hamza Qayumi	21
11	16	Bilal Shams	22
12	14	Aman Sandhu	23
13	33	Umair Alvi	24
14	33	Jashan Sandhu	25
15	26	Emilia Zachemski	26
16	25	Karla Smith	27
17	49	Muhammad Zafar	28
18	50	Danish Sheikh	29
19	39	Hammad Qadri	30
20	39	Ahmed Dawoud	31
21	23	Shakir Ahmed	32
22	23	Hassan Jung	33
23	50	Andy Dang	35
24	49	Sarmad Sacasm	36
25	25	Anthony Carl	37
26	33	Kendall Roy	38

### Query 2

--SUPPLIER--

```
SELECT SUPP.ITEMTYPE, CLTHNG.ITEMNUM, CLTHNG.DESIGN
FROM SUPP
INNER JOIN CLTHNG
ON SUPP.SUPPLIERID = CLTHNG.SUPP_SUPPLIERID;
```

	ITEMTYPE	ITEMNUM	DESIGN
1	Jeans	41	Washed
2	Winter Jacket	43	Puffer
3	Winter Jacket	42	Goose Down
4	Sneakers	44	White Leather
5	T-shirts	1	Graphic
6	T-shirts	2	Classic T-shirts
7	Jeans	3	Acid-Washed Jeans
8	Jeans	4	Slim-Fit Jeans
9	Dresses	5	Floral Print Dresses
10	Dresses	6	Cocktail Dresses
11	Hoodies	7	Fleece Hoodies
12	Hoodies	8	Zip-Up Hoodies
13	Blazers	9	Wool Blend Blazers
14	Blazers	10	Pinstripe Blazers
15	Jeans	11	Cashmere Sweaters
16	Jeans	12	Cable-Knit Sweaters
17	Skirts	13	A-Line Skirts
18	Skirts	14	Pleated Skirts
19	Leggings	15	Yoga Leggings
20	Leggings	16	High-Waisted Leggings
21	Jumpsuits	17	Wide-Leg Jumpsuits
22	Jumpsuits	18	Denim Jumpsuits
23	Shorts	19	Bermuda Shorts
24	Shorts	20	Cargo Shorts
25	Overalls	21	Denim Overalls
26	Overalls	22	Corduroy Overalls

### Query 3

--MANAGER--Manager with the highest salary

SELECT name, salary

FROM mngr

WHERE salary = (SELECT MAX(salary) FROM mngr);

	NAME	SALARY
1	Bartosz Franco	70250

#### Query 4

```
--WORKER--worker's working more than average hours per week
SELECT name, hoursperweek
FROM wrkr
WHERE hoursperweek > (SELECT AVG(hoursperweek) FROM wrkr);
```

	NAME	HOURSPERWEEK
1	June Kim	20.5
2	Katie Holmes	21
3	Ana Berg	20.5
4	Bertie Moody	21
5	Cole Perry	22.5
6	Callan Hicks	21
7	Kaya Pennington	23
8	Layla Clements	22.5
9	Lillian Hendrix	21
10	Lorcan Orozco	22
11	Liliana Kramer	20.5
12	Junior Frazier	25
13	Blanche Acosta	24

#### Query 5

```
--SUPPLIER--list of suppliers and the clothes they supply
SELECT s.suppliename, COUNT(c.itemnum) AS num_of_clothing_items
FROM supp s
JOIN clthng c ON s.supplierid = c.supp_supplierid AND s.mngr_empid =
c.supp_manager_empid
GROUP BY s.suppliename;
```

SUPPLIENAME	NUM_OF_CLOTHING_ITEMS
1 ModaMania Outfitters	2
2 UrbanThreads Unlimited	4
3 VelvetHues Boutique	2
4 ChicWardrobe Creations	2
5 North Face	2
6 Levis	1
7 StyleSavvy Designs	2
8 SilkSerenity Studios	2
9 GlamourGrove Garments	2
10 TrendyStitch Apparel	2
11 DenimDreams Inc.	2
12 CoutureCrafted Creations	2
13 Converse	1

### Query 6

--CLOTHING--which clothing item has the highest price

SELECT itemnum, price

FROM clthng

WHERE price = (SELECT MAX(price) FROM clthng);

	ITEMNUM	PRICE
1	43	120
2	42	120

### Query 7

--EMPLOYEE/MANAGER--list of all employee's and their employee type

SELECT e.empid, e.username, e.type

FROM emp e;

	EMPID	USERNAME	TYPE
1	123	ADAS	MNGR
2	234	Awort	MNGR
3	235	Emp1	WRKR
4	236	Emp2	WRKR
5	237	Emp3	WRKR
6	238	Emp4	WRKR
7	12	emp12	WRKR
8	13	emp13	WRKR
9	14	emp14	WRKR
10	15	emp15	MNGR
11	16	emp16	WRKR
12	17	emp17	WRKR
13	18	emp18	MNGR
14	19	emp19	MNGR
15	20	emp20	WRKR
16	21	emp21	MNGR
17	22	emp22	WRKR
18	23	emp23	WRKR
19	24	emp24	MNGR

(Output is much longer than in photo)

### Query 8

--TRANSACTION--list all transactions per item

SELECT c.itemnum, c.design, c.price \* c.quantity AS total\_sales

FROM clthng c;

ITE...	DESIGN	TOTAL_SALES
1	41 Washed	5400
2	43 Puffer	8040
3	42 Goose Down	8040
4	44 White Leather	4250
5	1 Graphic	6240
6	2 Classic T-shirts	1290
7	3 Acid-Washed Jeans	483
8	4 Slim-Fit Jeans	483
9	5 Floral Print Dresses	1728
10	6 Cocktail Dresses	1728
11	7 Fleece Hoodies	3128
12	8 Zip-Up Hoodies	3128
13	9 Wool Blend Blazers	1008
14	10 Pinstripe Blazers	1008
15	11 Cashmere Sweaters	1512
16	12 Cable-Knit Sweaters	1512
17	13 A-Line Skirts	1368
18	14 Pleated Skirts	1368
19	15 Yoga Leggings	3564
20	16 High-Waisted Leggings	3564
21	17 Wide-Leg Jumpsuits	2107
22	18 Denim Jumpsuits	2107
23	19 Bermuda Shorts	1680
24	20 Cargo Shorts	1680
25	21 Denim Overalls	1680
26	22 Corduroy Overalls	1680

### Query 9

--CLOTHING,SUPPLIER,MANAGER--select all clothing design, supplier names and manager names and sort/display them by manager and supplier name

SELECT

c.design AS "Clothing Design",  
s.suppliename AS "Supplier Name",  
m.name AS "Manager Name"

FROM

clthng c

JOIN

supp s ON c.supp\_supplierid = s.supplierid AND c.supp\_manager\_empid = s.mngr\_empid

JOIN

mngr m ON s.mngr\_empid = m.empid

ORDER BY

m.name, s.suppliename;

🔍 Clothing Design	🔍 Supplier Name	🔍 Manager Name
1 White Leather	Converse	Alex Daniel
2 Washed	Levis	Austin Wort
3 Goose Down	North Face	Austin Wort
4 Puffer	North Face	Austin Wort
5 Wide-Leg Jumpsuits	SilkSerenity Studios	Bartosz Franco
6 Denim Jumpsuits	SilkSerenity Studios	Bartosz Franco
7 Graphic	ChicWardrobe Creations	Bethany Hampton
8 Classic T-shirts	ChicWardrobe Creations	Bethany Hampton
9 Fleece Hoodies	VelvetHues Boutique	Cain Cruz
10 Zip-Up Hoodies	VelvetHues Boutique	Cain Cruz
11 Floral Print Dresses	TrendyStitch Apparel	Hanna Bernard
12 Cocktail Dresses	TrendyStitch Apparel	Hanna Bernard
13 Cashmere Sweaters	UrbanThreads Unlimited	Hanna Bernard
14 Cable-Knit Sweaters	UrbanThreads Unlimited	Hanna Bernard
15 Acid-Washed Jeans	UrbanThreads Unlimited	Hanna Bernard
16 Slim-Fit Jeans	UrbanThreads Unlimited	Hanna Bernard
17 Pinstripe Blazers	StyleSavvy Designs	Lewis Mann
18 Wool Blend Blazers	StyleSavvy Designs	Lewis Mann
19 Bermuda Shorts	ModaMania Outfitters	Lucian Vasquez
20 Cargo Shorts	ModaMania Outfitters	Lucian Vasquez
21 Corduroy Overalls	GlamourGrove Garments	Milo Petty
22 Denim Overalls	GlamourGrove Garments	Milo Petty
23 A-Line Skirts	CoutureCrafted Creations	Tanya Simpson
24 Pleated Skirts	CoutureCrafted Creations	Tanya Simpson
25 Yoga Leggings	DenimDreams Inc.	Victoria Barry
26 High-Waisted Leggings	DenimDreams Inc.	Victoria Barry

### **Query 10**

--MANAGER,SUPPLIER--display suppliers and managers who sell 0 or more items  
SELECT

    s.suppliername AS "Supplier Name",  
    m.name AS "Manager Name",  
    COUNT(c.itemnum) AS "Total Items Sold"

FROM

    clthng c

JOIN

    supp s ON c.supp\_supplierid = s.supplierid

JOIN

    mngr m ON s.mngr\_empid = m.empid

GROUP BY

    s.suppliername, m.name

HAVING

    COUNT(c.itemnum) >= 0

ORDER BY

    COUNT(c.itemnum) DESC;

Supplier Name	Manager Name	Total Items Sold
UrbanThreads Unlimited	Hanna Bernard	4
GlamourGrove Garments	Milo Petty	2
ChicWardrobe Creations	Bethany Hampton	2
DenimDreams Inc.	Victoria Barry	2
StyleSavvy Designs	Lewis Mann	2
ModaMania Outfitters	Lucian Vasquez	2
VelvetHues Boutique	Cain Cruz	2
CoutureCrafted Creations	Tanya Simpson	2
TrendyStitch Apparel	Hanna Bernard	2
SilkSerenity Studios	Bartosz Franco	2

10 rows selected.

### View 1

```
CREATE VIEW manager_supplier AS
SELECT EMPID,NAME,SUPPLIERID
FROM MNGR, SUPP
WHERE MNGR.EMPID = SUPP.MNGR_EMPID
ORDER BY SUPPLIERID
```

```
SELECT * FROM manager_supplier
```

	EMPID	NAME	SUPPLIERID
1	234	Austin Wort	1
2	234	Austin Wort	2
3	123	Alex Daniel	3
4	21	Hanna Bernard	23
5	48	Cain Cruz	36
6	21	Hanna Bernard	48
7	43	Lucian Vasquez	49
8	30	Milo Petty	56
9	24	Tanya Simpson	63
10	46	Lewis Mann	68
11	18	Victoria Barry	76
12	44	Bartosz Franco	81
13	15	Bethany Hampton	86



## View 2

```
CREATE VIEW totalCust_transactions AS
SELECT CCNUMBER, CUST_CUSTOMMERID,NAME
FROM TRNSCT, CUST
WHERE CUST.CUSTOMERID = TRNSCT.CUST_CUSTOMMERID
ORDER BY TRNSCT.CUST_CUSTOMMERID
```

```
SELECT * FROM totalCust_transactions
```

	CCNUMBER	CUST_CUSTOMMERID	NAME
1	4124657864538769	15	Alex Jones
2	4124657864535425	16	Annie Chao
3	4124657864535425	18	Katie Marsh
4	4124657864535425	18	Katie Marsh
5	4124657864535425	18	Katie Marsh
6	4124657864535425	18	Katie Marsh
7	7567839728576235	19	Arman Aujla
8	3056930009020004	20	Omar Malik
9	1252352538679523	21	Hamza Qayumi
10	7645768787675445	22	Bilal Shams
11	6011981111111113	23	Aman Sandhu
12	3622720627166712	24	Umair Alvi
13	6200000000000005	25	Jashan Sandhu
14	6200000000000047	26	Emilia Zachemski
15	5555050360000080	27	Karla Smith
16	4000000760000002	28	Muhammad Zafar
17	4000004840008001	29	Danish Sheikh
18	4000004840008001	29	Danish Sheikh
19	4000004840008001	29	Danish Sheikh
20	4000004840008001	29	Danish Sheikh
21	4123910812741245	30	Hammad Qadri
22	3158710251516970	31	Ahmed Dawoud
23	1825013568123950	32	Shakir Ahmed
24	8739652873581295	33	Hassan Jung
25	8657890213658791	35	Andy Dang
26	8526357198357912	36	Sarmad Sacasm
27	7567923561323569	37	Anthony Carl
28	7679576879457685	38	Kendall Roy