

ASSINGMENT 7 ISOM 821-

```
--Q45
select round(max(avg_price),2) as max_avg_price from (select avg([prod_price]) as avg_price from
[dbo].[CH07_LargeCo_lgproduct] A
join [dbo].[CH07_LargeCo_lgbrand] B
on A.brand_id=B.brand_id
group by B.brand_name) as Q
--Q50
SELECT L1.Inv_Num, L1.Line_Num, P1.Prod_SKU, P1.Prod_Descript, L2.Line_Num, P2.Prod_SKU, P2.Prod_Descript, I
FROM [dbo].[CH07_LargeCo_lgline] L1
JOIN [dbo].[CH07_LargeCo_lgproduct] P1 ON L1.Prod_SKU = P1.Prod_SKU
JOIN [dbo].[CH07_LargeCo_lgline] L2 ON L1.Inv_Num = L2.Inv_Num
JOIN [dbo].[CH07_LargeCo_lgproduct] P2 ON L2.Prod_SKU = P2.Prod_SKU
WHERE P1.Brand_ID = P2.Brand_ID AND P1.Prod_Category = 'SEALER' AND P2.Prod_Category = 'TOP COAT'
ORDER BY L1.Inv_Num, L1.Line_Num, L2.Line_Num DESC;
--Q51
```

max_avg_price
22.590000

```
--Q50
SELECT L1.Inv_Num, L1.Line_Num, P1.Prod_SKU, P1.Prod_Descript, L2.Line_Num, P2.Prod_SKU, P2.Prod_Descript, P1.Brand_ID
FROM [dbo].[CH07_LargeCo_lgline] L1
JOIN [dbo].[CH07_LargeCo_lgproduct] P1 ON L1.Prod_SKU = P1.Prod_SKU
JOIN [dbo].[CH07_LargeCo_lgline] L2 ON L1.Inv_Num = L2.Inv_Num
JOIN [dbo].[CH07_LargeCo_lgproduct] P2 ON L2.Prod_SKU = P2.Prod_SKU
WHERE P1.Brand_ID = P2.Brand_ID AND P1.Prod_Category = 'SEALER' AND P2.Prod_Category = 'TOP COAT'
ORDER BY L1.Inv_Num, L1.Line_Num, L2.Line_Num DESC;
--Q51
```

Inv_Num	Line_Num	Prod_SKU	Prod_Descript	Line_Num	Prod_SKU	Prod_Descript	Brand_ID
115	2	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Ap...	1	1203-AIS	Fire Retardant Coating, Latex, Interior, Flat (ULC ...	35
118	2	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Ap...	5	5046-TTC	Aluminum Paint, Heat Resistant (Up to 427°C - 80...	35
135	5	3036-PCT	Sealer, for Knots	2	1074-VVJ	Light Industrial Coating, Exterior, Water Based (e...	25
153	2	3701-YAW	Sealer, Solvent Based, for Concrete Floors	1	3955-NWD	Water Repellant, Clear (Not Paintable)	30
222	1	1336-FVM	Alkyd, Sanding Sealer, Clear	3	8199-YRF	Varnish, Exterior, Water Based, (Satin-Like) MPI ...	33
234	4	5728-ZPO	Shop Coat, Quick Dry, for Interior Steel	3	9272-LTP	Varnish, Marine Spar, Exterior, Gloss (MPI Gloss ...	27
234	4	5728-ZPO	Shop Coat, Quick Dry, for Interior Steel	2	9126-PWF	Latex, Recycled (Consolidated), Interior (MPI Glo...	27
243	1	4072-SWV	Sealer, Solvent Based, for Concrete Floors	3	5653-RTU	Aluminum Paint	23
287	1	8894-LUR	Lacquer, Sanding Sealer, Clear	5	9838-FUF	Fire Retardant Top-Coat, Clear, Alkyd, Interior (U...	27
333	1	3701-YAW	Sealer, Solvent Based, for Concrete Floors	6	2584-CIJ	Stain, for Exterior Wood Decks	30
333	1	3701-YAW	Sealer, Solvent Based, for Concrete Floors	5	4784-SLU	Lacquer, Clear, Flat	30
369	2	1403-TUY	Sealer, Water Based, for Concrete Floors	1	8726-ZNM	Floor Paint, Alkyd, Low Gloss	29
404	5	5728-ZPO	Shop Coat, Quick Dry, for Interior Steel	1	2699-GNS	Top-Coat for Multicolored Coating, Clear	27
423	6	1403-TUY	Sealer, Water Based, for Concrete Floors	3	8726-ZNM	Floor Paint, Alkyd, Low Gloss	29
427	1	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Ap...	3	1021-MTI	Elastomeric, Exterior, Industrial Grade, Water Ba...	35
430	6	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Ap...	2	2129-BCP	Dry Fall, Alkyd, Flat	35
470	2	4072-SWV	Sealer, Solvent Based, for Concrete Floors	3	2918-THH	Alkyd, Exterior Flat (MPI Gloss Level 1)	23
476	2	1403-TUY	Sealer, Water Based, for Concrete Floors	4	9226-MUC	Latex, Interior (Marshall-Like), MPI Gloss Level 2)	29

--Q51

```
WITH EmployeeTotals AS (  
    SELECT EMPLOYEE_ID, SUM(LINE_QTY) AS TOTAL  
    FROM [dbo].[CH07_LargeCo_lginvoice] AS I  
    JOIN [dbo].[CH07_LargeCo_lgline] AS L ON I.INV_NUM = L.INV_NUM  
    JOIN [dbo].[CH07_LargeCo_lgproduct] AS P ON L.PROD_SKU = P.PROD_SKU  
    JOIN [dbo].[CH07_LargeCo_lgbrand] AS B ON B.BRAND_ID = P.BRAND_ID  
    WHERE B.BRAND_NAME = 'Binder Prime'  
    AND I.INV_DATE BETWEEN '2017-11-01' AND '2017-12-05'  
    GROUP BY EMPLOYEE_ID  
)  
MaxTotal AS (  
    SELECT MAX(TOTAL) AS MAX_TOTAL FROM EmployeeTotals  
)  
  
SELECT EMP.EMP_NUM, EMP.EMP_LNAME, EMP.EMP_FNAME, EMP.EMP_EMAIL, ET.TOTAL  
FROM CH07_LargeCo_lgemployee AS EMP  
JOIN EmployeeTotals AS ET ON EMP.EMP_NUM = ET.EMPLOYEE_ID  
, MaxTotal AS MT  
WHERE ET.TOTAL = MT.MAX_TOTAL  
ORDER BY EMP.EMP_LNAME;
```

results Messages

EMP_NUM	EMP_LNAME	EMP_FNAME	EMP_EMAIL	TOTAL
84134	GARLAND	ROSALIE	G.ROSALI98@LGCOMPANY.COM	23
83850	MILES	RUSTY	M.RUSTY95@LGCOMPANY.COM	23

--Q52

```
SELECT DISTINCT C.cust_code AS "Cust_Code", C.cust_fname AS "Cust_FName", C.cust_lname AS "Cust_LName"
FROM CH07_LargeCo_lgcustomer C
WHERE EXISTS (
    SELECT 1
    FROM CH07_LargeCo_lginvoice I
    WHERE C.cust_code = I.cust_code
    AND (employee_id = 83649 OR employee_id = 83677)
)
ORDER BY C.cust_lname, C.cust_fname;
```

--Q53

```
SELECT c.cust_code, cust_fname, cust_lname, cust_street, cust_city,
cust_state, cust_zip, inv_date, COALESCE(inv_total, 0) AS "Largest Invoice"
FROM CH07_LargeCo_lgcustomer C LEFT JOIN CH07_LargeCo_lginvoice I
ON C.cust_code=I.cust_code
WHERE cust_state = 'AL' AND
(I.inv_total IS NULL OR I.inv_total =(SELECT MAX(inv_total)
FROM CH07_LargeCo_lginvoice
WHERE cust_code=C.cust_code))
ORDER BY cust_lname, cust_fname;
```

Results Messages

Cust_Code	Cust_FName	Cust_LName
163	MALISSA	ACEVEDO
198	IOLA	ALEXANDER
651	ERASMO	ARELLANO
511	CHRISTEN	ASH
295	DORTHY	AUSTIN
285	JOVITA	AYERS
156	JONAS	BARRERA
124	LINDSAY	BARRERA
240	ZONA	BARROW
294	AURFELIA	BARTLETT

Query executed successfully. CPU: 0.00 (0.00 CPU), 4.01M (1.00M)

--Q53

```
SELECT c.cust_code, cust_fname, cust_lname, cust_street, cust_city,
cust_state, cust_zip, inv_date, COALESCE(inv_total, 0) AS "Largest Invoice"
FROM CH07_LargeCo_lgcustomer C LEFT JOIN CH07_LargeCo_lginvoice I
ON C.cust_code=I.cust_code
WHERE cust_state = 'AL' AND
(I.inv_total IS NULL OR I.inv_total =(SELECT MAX(inv_total)
FROM CH07_LargeCo_lginvoice
WHERE cust_code=C.cust_code))
ORDER BY cust_lname, cust_fname;
```

--Q54

```
SELECT B.brand_name, B.brand_type, AVG(B.prod_price) AS "Average Price", SUM(L.line_qty) AS "
```

10 %

Results Messages

	cust_code	cust_fname	cust_lname	cust_street	cust_city	cust_state	cust_zip	inv_date	Largest Invoice
1	903	ROBIN	ADDISON	323 LORETTA PLACE	Mobile	AL	36693	2017-08-26	230.63
2	643	NINA	ALLEN	680 RED TALON DRIVE	Robertsdale	AL	36574	2017-06-21	11.99
3	295	DORTHY	AUSTIN	829 BIG BEND LOOP	Diamond Shamrock	AL	36614	2017-04-24	589.75
4	393	FOSTER	BERNAL	1299 EAST 3RD AVENUE	Birmingham	AL	35280	NULL	0.00
5	853	GAYLORD	BOLTON	1069 LUGENE LANE	Montgomery	AL	36131	2017-11-25	372.68
6	925	ALANA	BOOKER	1874 I STREET	Mccullough	AL	36502	2017-12-12	208.85
7	1248	LISA	BRADY	491 LOWLAND AVENUE	Daphne	AL	36577	2017-12-05	414.47
8	538	CHIKUITA	CALDWELL	1501 BRIGGS COURT	Normal	AL	35762	2017-05-26	143.90
9	89	MONICA	CANTRELL	697 ADAK CIRCLE	Loachapoka	AL	36865	2017-03-31	516.58
10	1233	NATHALIE	CHURCH	1802 SNOWY OWL CIRCLE	Nanier Field	AL	36303	2017-11-24	160.96

Query executed successfully.

--Q54

```
SELECT B.brand_name, B.brand_type, AVG(P.prod_price) AS "Average Price", SUM(L.line_qty) AS "Units Sold"
FROM CH07_LargeCo_lgbrand B
JOIN CH07_LargeCo_lgproduct P ON B.brand_id = P.brand_id
JOIN CH07_LargeCo_lgline L ON P.prod_sku = L.prod_sku
GROUP BY B.brand_name, B.brand_type
ORDER BY B.brand_name;
```

--Q55

```
SELECT B.brand_name AS "Brand Name", B.brand_type AS "Brand Type", P.prod_sku AS "Prod_Sku", P.prod_descript AS "Prod_Des"
FROM CH07_LargeCo_lgbrand B
JOIN CH07_LargeCo_lgproduct P ON B.brand_id = P.brand_id
WHERE B.brand_type <> 'Premium'
AND P.prod_price > (
    SELECT MAX(PremiumMaxPrice)
    FROM (
        SELECT MAX(P.prod_price) AS PremiumMaxPrice
        FROM CH07_LargeCo_lgbrand L
        JOIN CH07_LargeCo_lgproduct P ON L.brand_id = P.brand_id
        WHERE L.brand_type = 'Premium'
    ) AS Subquery
);
```

100 %

Results Messages

brand_name	brand_type	Average Price	Units Sold
BINDER PRIME	PREMIUM	16.167570	3753
BUSTERS	VALUE	22.534400	3727
FORESTERS BEST	VALUE	21.203467	2086
HOME COMFORT	CONTRACTOR	21.936246	4842
LE MODE	PREMIUM	18.980721	5284
LONG HAUL	CONTRACTOR	18.636274	5728
OLDE TYME QUALITY	CONTRACTOR	18.417855	3614
STUTTENFURST	CONTRACTOR	16.980701	3671
VALU MATTE	VALUE	17.215020	2405

--Q55

```
SELECT B.brand_name AS "Brand Name", B.brand_type AS "Brand Type", P.prod_sku AS "Prod_Sku", P.prod_descript AS "Prod_Descript", P.prod_price AS "Prod_Price"
FROM CH07_LargeCo_lgbrand B
JOIN CH07_LargeCo_lgproduct P ON B.brand_id = P.brand_id
WHERE B.brand_type <> 'Premium'
AND P.prod_price > (
    SELECT MAX(PremiumMaxPrice)
    FROM (
        SELECT MAX(P.prod_price) AS PremiumMaxPrice
        FROM CH07_LargeCo_lgbrand L
        JOIN CH07_LargeCo_lgproduct P ON L.brand_id = P.brand_id
        WHERE L.brand_type = 'Premium'
    ) AS Subquery
);
```

100 %

Results Messages

Brand Name	Brand Type	Prod_Sku	Prod_Descript	Prod_Price
1 LONG HAUL	CONTRACTOR	1964-OUT	Fire Resistant Top Coat, for Interior Wood	78.49