Assignment 5
COSC 3336
Spring 2022

1. Write the SQL query to get the third maximum salary of an employee from a table named employees.

Table 1. Employee

employee_name	salary
A	24000
C	34000
D	55000
E	75000
F	21000
G	40000
H	50000

SELECT TOP 1 salary
FROM (SELECT TOP 3 salary FROM Employee ORDER BY salary DESC) AS ["Top 3 Salarys"]
ORDER BY salary;

2. From the following tables write a SQL query to find the salesperson and customer who belongs to same city. Return Salesman, cust_name and city.

Table 2. salesman

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

Table 3. Customer

```
customer_id |    cust_name    |    city    | grade | salesman_id
------------+-----------------+-----------+-------+------------
       3002 | Nick Rimando    | New York  |  100  |        5001
       3007 | Brad Davis      | New York  |  200  |        5001
       3005 | Graham Zusi     | California|  200  |        5002
       3008 | Julian Green    | London    |  300  |        5002
       3004 | Fabian Johnson  | Paris     |  300  |        5006
       3009 | Geoff Cameron   | Berlin    |  100  |        5003
       3003 | Jozy Altidor    | Moscow    |  200  |        5007
```

Question_2 ✕

name	cust_name	city
James Hoog	Brad Davis	New York
James Hoog	Nick Rimando	New York
Nail Knite	Fabian Johnson	Paris
Pit Alex	Julian Green	London
Mc Lyon	Fabian Johnson	Paris

SELECT salesman.name, customer.cust_name, customer.city
FROM salesman INNER JOIN customer ON salesman.city = customer.city
WHERE (((customer.city)=[salesman].[city]));

3. From the following tables write a SQL query to select all rows from both participating tables as long as there is a match between pro_com and com_id

Table 4. company_mast

```
COM_ID COM_NAME
------ ------------
    11 Samsung
    12 iBall
    13 Epsion
    14 Zebronics
    15 Asus
    16 Frontech
```

Table 5. item_mast

```
PRO_ID PRO_NAME                     PRO_PRICE    PRO_COM
------ ----------------------       ----------   ---------
   101 Mother Board                   3200.00          15
   102 Key Board                       450.00          16
   103 ZIP drive                       250.00          14
   104 Speaker                         550.00          16
   105 Monitor                        5000.00          11
   106 DVD drive                       900.00          12
   107 CD drive                        800.00          12
   108 Printer                        2600.00          13
   109 Refill cartridge                350.00          13
```

Question_3 ✕					
COM_ID ▾	COM_NAME ▾	PRO_ID ▾	PRO_NAME ▾	PRO_PRICE ▾	PRO_COM ▾
15	Asus	101	Mother Board	3200	15
16	Frontech	102	Key Board	450	16
14	Zebronics	103	ZIP drive	250	14
16	Frontech	104	Speaker	550	16
11	Samsung	105	Monitor	5000	11
12	iBall	106	DVD drive	900	12
12	iBall	107	CD drive	800	12
13	Epsion	108	Printer	2600	13
13	Epsion	109	Refill cartridge	350	13

SELECT *
FROM company_mast INNER JOIN item_mast ON company_mast.COM_ID = item_mast.PRO_COM
ORDER BY item_mast.PRO_ID;

4. From the following tables write a SQL query to calculate and find the average price of items of each company higher than or equal to Rs. 350. Return average value and company name.

Table 4. company_mast

COM_ID	COM_NAME
11	Samsung
12	iBall
13	Epsion
14	Zebronics
15	Asus
16	Frontech

Table 5. item_mast

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200.00	15
102	Key Board	450.00	16
103	ZIP drive	250.00	14
104	Speaker	550.00	16
105	Monitor	5000.00	11
106	DVD drive	900.00	12
107	CD drive	800.00	12
108	Printer	2600.00	13
109	Refill cartridge	350.00	13

Question_4 ✕		
COM_ID ▾	COM_NAME ▾	AVG_PRICE_OVER_350 ▾
11	Samsung	5000
12	iBall	850
13	Epsion	1475
15	Asus	3200
16	Frontech	500

SELECT company_mast.COM_ID, company_mast.COM_NAME, Avg(item_mast.PRO_PRICE) AS AVG_PRICE_OVER_350
FROM company_mast INNER JOIN item_mast ON company_mast.COM_ID = item_mast.PRO_COM
GROUP BY company_mast.COM_NAME, company_mast.COM_ID
HAVING AVG(PRO_PRICE) >= 350
ORDER BY company_mast.COM_ID;;