**Task 2: SQL Basics** (Tuomas Pasanen)

This exercise just simply has pictures of the commands, under the specified task. Database is the same one detailed in task 1.

1. Write a SQL statement to display columns name and commission for all the salesmen.

A picture containing table

Description automatically generated

2. Find the salespeople who lives in the City of 'Paris'. Return salesperson's name, city.

Text

Description automatically generated

3. Find the details of all employees whose name includes ‘James’ or ‘Adam’. Return

salesman\_id, name.

Text

Description automatically generated

4. Find the details of those salespeople whose name starts with any letter within 'A' and 'L'

(not inclusive). Return salesman\_id, name, city, commission.

Text

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5. Find those salesmen whose commission is greater than or equal to 0.13. Return name,

commission.

Text

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6. Find the orders, which are delivered by a salesperson of ID. 5001. Return ord\_no,

ord\_date, purch\_amt

Text

Description automatically generated

7. Find the orders, which are delivered by a salesperson of ID. 5001 and purchace amount is more than 1000. Return ord\_no, ord\_date, purch\_amt

Text

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8. Find the products whose price is in the range 1000 to 4000. Begin and end values are included. Return ord\_no, ord\_date, purch\_amt.

Text

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9. Write a SQL query to find all the orders which purchase amount is less than 500€ and done before October 2012 or which purchase amount is greater than 2000 and done in October 2012. Return ord\_no, purch\_amt, ord\_date.

Text

Description automatically generated

10. Update salesman whose id is 5007 name to be Paul White and his city to London.

Graphical user interface, text

Description automatically generated

11. Update customer’s whose id is 3005 grade to be 300.

Graphical user interface

Description automatically generated

12. Change salesman whose id is 5007 id to be 5009.

First drop the constraints:





Now alter the salesman\_id:

Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated with low confidence

A screenshot of a computer

Description automatically generated with low confidence

Now add the constraints back:

Text

Description automatically generated

Text

Description automatically generated

The constraints in action:

Text

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13. Delete order number 70014 from orders.

Graphical user interface

Description automatically generated

14. Delete salesman whose id is 5010 and all the customers who has the reference to this salesman.

A screenshot of a computer

Description automatically generated with low confidence

A screenshot of a computer

Description automatically generated with medium confidence

15. Write a SQL query to calculate average purchase amount of all orders. Return average purchase amount

Text

Description automatically generated

Rounded:

Text

Description automatically generated

16. Write a SQL query to calculate the average price for purchase amount of salesman 5001.

Text

Description automatically generated

17. Write a SQL query to calculate total purchase amount of all orders. Return total purchase amount.

A screenshot of a computer

Description automatically generated with medium confidence

18. Write a SQL query to count the number of orders.

Text

Description automatically generated

19. Write a SQL query to count the number of unique salespeople. Return number of salespeople.

Text

Description automatically generated

Since salesman\_id is a primary key, we don’t necessarily have to do DISTINCT(). There won’t be duplicates of id’s in any case.

20. Write a SQL query to count the number of orders after 2012-07-01.

Text

Description automatically generated

21. Write a SQL query to count the number of orders in October 2012.

Text

Description automatically generated

22. Write a SQL query to find the maximum purchase amount.

A screenshot of a computer

Description automatically generated with medium confidence

23. Write a SQL query to find the lowest purchase amount ordered by each customer. Return customer ID, minimum purchase amount.

Text

Description automatically generated

Ordered by the customer\_id.

24. Write a SQL query to find the highest purchase amount ordered by each customer on a particular date. Return, order date and highest purchase amount.

Text

Description automatically generated

25. Write a SQL query to find highest order (purchase) amount by each customer in a particular order date. Filter the result by highest order (purchase) amount above 2000.00. Return customer id, order date and maximum purchase amount.

Text

Description automatically generated

26. Write a SQL query to find the maximum order (purchase) amount in the range 2000, 4000 (Begin and end values are included.) by combination of each customer and order date.

Text

Description automatically generated

27. Write a SQL query to find the maximum order (purchase) amount generated by each salesperson. Filter the rows for the salesperson ID is in the range 5003 and 5008 (Begin and end values are included.). Return salesperson id and maximum purchase amount.

Text

Description automatically generated

28. Write a SQL query to count all the orders generated on '2012-08-17'. Return number of orders.

Text

Description automatically generated

29. Write a SQL query to calculate average purchase amount of each salesman. Return salesman id and average purchase amount.