KIET GROUP OF INSTITUTIONS

DEPARTMENT OF COMPUTER APPLICATIONS

LAB ASSIGNMENT 8

DBMS Lab (KCA – 252)

Assignments on Join

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Note – Questions from 1 to 14 refer the sample tables Salesman, Customer, Order.

Sample table: salesman

salesman_id		-	
	+		•
·	James Hoog		·
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

Sample table: customer

customer_id cust_name		-		-	salesman_id
2002 Nich Dimendo		•	-+		•
3002 Nick Rimando		New York	- 1	100	•
3007 Brad Davis		New York		200	5001
3005 Graham Zusi		California		200	5002
3008 Julian Green		London		300	5002
3004 Fabian Johnson	1	Paris		300	5006
3009 Geoff Cameron		Berlin		100	5003
3003 Jozy Altidor		Moscow		200	5007
3001 Brad Guzan		London	- [5005

Sample table: orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

1. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.

SELECT s.name AS Salesman_Name, c.cust_name AS Customer_Name, s.city FROM salesman s

JOIN customer c ON s.city = c.city;

2. Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders which order amount between 500 and 2000.

SELECT o.ord_no, o.purch_amt, c.cust_name, c.city

FROM orders o

JOIN customer c ON o.customer id = c.customer id

WHERE o.purch amt BETWEEN 500 AND 2000;

3. Write a SQL statement to know which salesman are working for which customer.

SELECT s.name AS Salesman_Name, c.cust_name AS Customer_Name

FROM salesman s

JOIN customer c ON s.salesman id = c.salesman id;

4. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who gets a commission from the company is more than 12%.

SELECT c.cust_name, s.name AS Salesman_Name

FROM customer c

JOIN salesman s ON c.salesman_id = s.salesman_id

WHERE s.commission > 0.12;

5. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in the same city where their customer lives, and gets a commission is above 12%.

SELECT c.cust_name, s.name AS Salesman_Name, c.city AS Customer_City, s.city AS Salesman_City

FROM customer c

JOIN salesman s ON c.salesman_id = s.salesman_id

WHERE s.commission > 0.12 AND c.city <> s.city;

6. Write a SQL statement to find the details of a order i.e. order number, order date, amount of order, which customer gives the order and which salesman works for that customer and how much commission he gets for an order.

SELECT o.ord_no, o.ord_date, o.purch_amt, c.cust_name, s.name AS Salesman_Name, s.commission

FROM orders o

JOIN customer c ON o.customer id = c.customer id

JOIN salesman s ON o.salesman id = s.salesman id;

7. Write a SQL statement to make a list in ascending order for the customer who works either through a salesman or by own.

SELECT c.*

FROM customer c

ORDER BY c.cust name ASC;

8. Write a SQL statement to make a list in ascending order for the customer who holds a grade less than 300 and works either through a salesman or by own.

SELECT c.cust_name, c.city, o.ord_no, o.ord_date, o.purch_amt

FROM customer c

LEFT JOIN orders o ON c.customer id = o.customer id

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ORDER BY o.ord date ASC;
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9. Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to find that either any of the existing customers have placed no order or placed one or more orders.

SELECT c.cust_name, c.city, o.ord_no, o.ord_date, o.purch_amt FROM customer c LEFT JOIN orders o ON c.customer_id = o.customer_id ORDER BY o.ord_date ASC;

10. Write a SQL statement to make a report with customer name, city, order number, order date, order amount salesman name and commission to find that either any of the existing customers have placed no order or placed one or more orders by their salesman or by own. SELECT c.cust_name, c.city, o.ord_no, o.ord_date, o.purch_amt, s.name AS Salesman Name, s.commission

FROM customer c

LEFT JOIN orders o ON c.customer_id = o.customer_id LEFT JOIN salesman s ON c.salesman_id = s.salesman_id ORDER BY o.ord_date ASC;

11. Write a SQL statement to make a list in ascending order for the salesmen who works either for one or more customer or not yet join under any of the customers.

SELECT s.*

FROM salesman s

LEFT JOIN customer c ON s.salesman_id = c.salesman_id GROUP BY s.salesman_id, s.name, s.city, s.commission

ORDER BY s.name ASC;

12. Write a SQL statement to make a list for the salesmen who works either for one or more customer or not yet join under any of the customers who placed either one or more orders or no order to their supplier.

SELECT s.*

FROM salesman s

LEFT JOIN customer c ON s.salesman id = c.salesman id

LEFT JOIN orders o ON c.customer_id = o.customer_id

GROUP BY s.salesman_id, s.name, s.city, s.commission

ORDER BY s.name ASC:

13. Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customer. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.

SELECT s.*

FROM salesman s

LEFT JOIN customer c ON s.salesman id = c.salesman id

LEFT JOIN orders o ON c.customer_id = o.customer_id AND o.purch_amt >= 2000

WHERE c.grade IS NOT NULL OR o.ord_no IS NULL

GROUP BY s.salesman id, s.name, s.city, s.commission

ORDER BY s.name ASC;

14. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa.

SELECT s.*, c.*

FROM salesman s

CROSS JOIN customer c;

Note – For questions 15 to 19 use sample table company_mast and item_mast Sample table: company_mast

COM_ID COM_NAME 11 Samsung 12 iBall 13 Epsion 14 Zebronics

15 Asus 16 Frontech

Sample table: item_mast

PRO_ID PRO_NAME	PRO_PRICE	PRO_COM
101 Mother Board	3200	15
102 Key Board	450	16
103 ZIP drive	250	14
104 Speaker	550	16
105 Monitor	5000	11
106 DVD drive	900	12
107 CD drive	800	12
108 Printer	2600	13
109 Refill cartridge	350	13
110 Mouse	250	12

15. Write a SQL query to display all the data from the item_mast, including all the data for each item's producer company.

SELECT s.*, c.*

FROM salesman s

CROSS JOIN customer c;

16. Write a SQL query to display the item name, price, and company name of all the products.

SELECT i.pro_name, i.pro_price, c.com_name

FROM item_mast i

JOIN company_mast c ON i.pro_com = c.com_id;

17. Write a SQL query to display the average price of items of each company, showing the name of the company.

SELECT c.com name, AVG(i.pro price) AS Avg Price

FROM item mast i

JOIN company mast c ON i.pro com = c.com id

GROUP BY c.com_name;

18. Write a SQL query to display the names of the company whose products have an average price larger than or equal to Rs. 350.

SELECT c.com name

FROM item_mast i

JOIN company mast c ON i.pro com = c.com id

GROUP BY c.com_name

HAVING AVG(i.pro price) >= 350;

19. Write a SQL query to display the name of each company along with the ID and price for their most expensive product.

SELECT c.com_name, i.pro_id, i.pro_price

FROM item_mast i

JOIN company_mast c ON i.pro_com = c.com_id

WHERE i.pro_price = (SELECT MAX(pro_price) FROM item_mast WHERE pro_com = c.com_id);

Note – For questions 20 to 23 use the sample tables emp_deptmen, emp_details.

Sample table: emp_departmen

DPT_CODE	DPT_NAME	DPT_ALLOTMENT
57	IT	65000
63	Finance	15000
47	HR	240000
27	RD	55000
89	QC	75000

Sample table: emp_details

EMP_IDNO E	EMP_FNAME	EMP_LNAME	EMP_DEPT
10000			
	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57
539569	George	Mardy	27
733843	Mario	Saule	63
631548	Alan	Snappy	27
839139	Maria	Foster	57

20. Write a query in SQL to display all the data of employees including their department.

SELECT e.*, d.*

FROM emp details e

JOIN emp departmen d ON e.emp dept = d.dpt code;

21. Write a query in SQL to display the first name and last name of each employee, along with the name and sanction amount for their department.

SELECT e.emp_fname, e.emp_lname, d.dpt_name, d.dpt_allotment

FROM emp_details e

JOIN emp_departmen d ON e.emp_dept = d.dpt_code;

22. Write a query in SQL to find the first name and last name of employees working for departments with a budget more than Rs. 50000.

SELECT e.emp fname, e.emp Iname

FROM emp details e

JOIN emp_departmen d ON e.emp_dept = d.dpt_code WHERE d.dpt_allotment > 50000;

23. Write a query in SQL to find the names of departments where more than two employees are working

SELECT d.dpt_name
FROM emp_departmen d
JOIN emp_details e ON e.emp_dept = d.dpt_code
GROUP BY d.dpt_name
HAVING COUNT(e.emp_idno) > 2;