



WORKSHEET 3

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DOMAIN CAMP: 16-01-2023 to 28-01-2023 **Section/Group:** DWWC-77

Subject Name: Database Management System

Using the following table schema 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

2012-04-25 3002

Ques 1 Write a SQL statement to find the total purchase amount of all orders.

Ques 2 Write a SQL statement to find the average purchase amount of all orders.

Ques 3 Write a SQL statement to find the number of salesmen currently listing for all of their customers.

5001

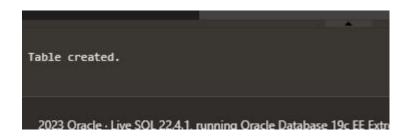
Solution: create table orders(ord_no number, purch_amt number(6,2),ord_date date, customer_id number, salesman_id number);



70013

3045.6





insert into orders values (70001,150.5,DATE '2012-10-05',3005,5002); insert into orders values (70009,270.65,DATE '2012-09-10',3001,5005); insert into orders values (70002,65.26,DATE '2012-10-05',3002,5001); insert into orders values (70004,110.5,DATE '2012-08-17',3009,5003); insert into orders values (70007,948.5,DATE '2012-09-10',3005,5002); insert into orders values (70005,2400.6,DATE '2012-07-27',3007,5001); insert into orders values (70008,5760, DATE '2012-09-10',3002,5001); insert into orders values (70010,1983.43,DATE '2012-10-10',3004,5006); insert into orders values (70003,2480.4,DATE '2012-10-10',3009,5003); insert into orders values (70012,250.45,DATE '2012-06-27',3008,5002); insert into orders values (70012,75.29,DATE '2012-08-17',3003,5007); insert into orders values (70013,3045.6,DATE '2012-04-25',3002,5001);

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1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
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Select sum(purch_amt) from orders;

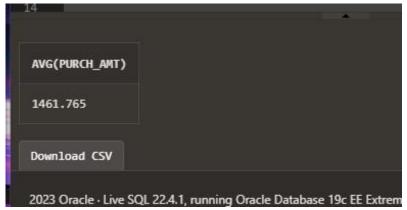


select avg(purch_amt) from orders;









Select count(distinct salesman_id) from orders;



Using the criteria given below customer_id | cust_name 3002 | Nick Rimando | 5001 New York | 100 | 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 3001 | Brad Guzan London 5005

Ques 4 Write a SQL statement to know how many customers have listed their names.

Ques 5 Write a SQL statement to find the number of customers who gets at least a gradation for his/her performance.

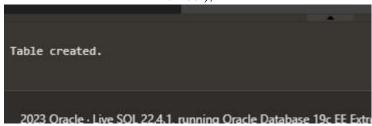






Solution:

Create table customers (customer_id number, cust_name varchar(20), city varchar(20), grade number, salesman_id number);



insert into customers values(3002, 'Nick Rimando', 'New York',100,5001); insert into customers values(3007, 'Brad Davis', 'New York',200,5001); insert into customers values(3005, 'Graham Zusi', 'California',200,5002); insert into customers values(3008, 'Julian Green', 'London',300,5002); insert into customers values(3004, 'Fabian Johnson', 'Paris',300,5006); insert into customers values(3009, 'Geoff Camerson', 'Berlin',100,5003); insert into customers values(3003, 'Jozy Altidor', 'Moscow',200,5007); insert into customers values(3001, 'Brad Guzan', 'London', null,5005);



select cust_name from customers;







select count(all grade) from customers;



Use the following schema for solving questions

ord_no	purch_an	nt ord_date	customer	_id salesman_id	l
				70001	
150.5	2012-10-0	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	
70008 70010	5760 1983.43	2012-09-10 2012-10-10	3002) 3004	5001 5006	





70012	250.45	2012-06-27 3008	5002
70011	75.29	2012-08-17 3003	5007
70013	3045.6	2012-04-25 3002	5001

Ques 6 Write a SQL statement to get the maximum purchase amount of all the orders.

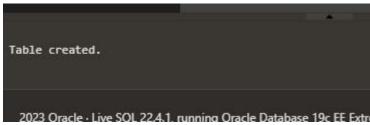
Ques 7 Write a SQL statement to get the minimum purchase amount of all the orders.

Ques 8 Write a SQL statement to find the highest purchase amount ordered by each customer with their ID and highest purchase amount.

Ques 9 Write a SQL statement to find the highest purchase amount ordered by each customer on a particular date with their ID, order date and highest purchase amount.

Ques 10 Write a SQL statement to find the highest purchase amount on a date '2012-0817' for each salesman with their ID.

Solution: create table orders(ord_no number, purch_amt number(6,2),ord_date date, customer_id number, salesman_id number);



insert into orders values (70001,150.5,DATE '2012-10-05',3005,5002); insert into orders values (70009,270.65,DATE '2012-09-10',3001,5005); insert into orders values (70002,65.26,DATE '2012-10-05',3002,5001); insert into orders values (70004,110.5,DATE '2012-08-17',3009,5003); insert into orders values (70007,948.5,DATE '2012-09-10',3005,5002); insert into orders values (70005,2400.6,DATE '2012-07-27',3007,5001); insert into orders values (70008,5760, DATE '2012-09-10',3002,5001); insert into orders values (70010,1983.43,DATE '2012-10-10',3004,5006); insert into orders values (70003,2480.4,DATE '2012-10-10',3009,5003); insert into orders values (70012,250.45,DATE '2012-06-27',3008,5002); insert into orders values (70012,75.29,DATE '2012-08-17',3003,5007); insert into orders values (70013,3045.6,DATE '2012-04-25',3002,5001);









select max(purch_amt) from orders;



select min(purch_amt) from orders;



select customer_id, max(purch_amt) from orders group by customer_id;



select customer_id, ord_date, max(purch_amt) from orders group by customer_id, ord_date;







select salesman_id, max(purch_amt) from orders where ord_date=DATE '2012-08-17' group by salesman_id;



Use the following schema 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 3001 | Brad Guzan | London | 5005

Ques 11 Write a SQL statement which selects the highest grade for each of the cities of the customers.

Solution:

Create table customers (customer_id number, cust_name varchar(20), city varchar(20), grade number, salesman_id number);



insert into customers values(3002,'Nick Rimando ', 'New York',100,5001); insert into customers values(3007,'Brad Davis ', 'New York',200,5001); insert into customers values(3005,'Graham Zusi ', 'California',200,5002); insert into customers values(3008,'Julian Green ', 'London',300,5002); insert into customers values(3004,'Fabian Johnson ', 'Paris',300,5006); insert into customers values(3009,'Geoff Camerson ', 'Berlin',100,5003); insert into customers values(3003,'Jozy Altidor', 'Moscow',200,5007); insert into customers values(3001,'Brad Guzan ', 'London', null,5005);



select city, max(grade) from customers group by city;









Use the following schema for following questions

EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER HIRE_DATE | JOB_ID | SALARY | COMMISSION_PCT | MANAGER_ID | DEPARTMENT ID | +----+ 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD_PRES | 0.00 | 0 | 24000.00 90 | 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD VP | 17000.00 | 0.00 | 100 | 90 | 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD VP 17000.00 0.00 | 100 | 90 | 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT PROG | 9000.00 | 0.00 | 102 | 60 L 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | 0.00 103 | IT_PROG | 6000.00 | 60 | 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT_PROG | 4800.00 | 0.00 | 103 | 60 | | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | 106 | Valli IT_PROG | 4800.00 | 0.00 103 | 60 | 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | |0.00|103 | IT_PROG | 4200.00 | 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 |







```
| 0.00 |
FI MGR
          | 12000.00 |
                                     101 |
                                                100 |
                              | DFAVIET | 515.124.4169
                                                           | 1987-06-26 | FI ACCOUNT
     109 | Daniel
                   | Faviet
 9000.00
                | 0.00 |
                         108
                                    100
                   Chen
                                                         | 1987-06-27 | FI ACCOUNT |
     110 | John
                             | JCHEN | 515.124.4269
8200.00 |
              | 00.0 |
                        108 |
                                   100 |
                             | ISCIARRA | 515.124.4369
                                                            | 1987-06-28 | FI ACCOUNT
                  Sciarra
     111 | Ismael
 7700.00 |
                | 0.00 |
                         108 |
                                    100 |
                                 | JMURMAN | 515.124.4469
     112 | Jose Manuel | Urman
                                                                 | 1987-06-29 |
FI_ACCOUNT | 7800.00 |
                              |0.00|
                                        108 |
                                                   100
     113 | Luis
                             | LPOPP | 515.124.4567
                  Popp
                                                         | 1987-06-30 | FI ACCOUNT |
                        108 |
6900.00
              | 00.0 |
                                   100 |
                   | Raphaely | DRAPHEAL | 515.127.4561
     114 | Den
                                                              | 1987-07-01 |
PU_MAN | 11000.00 |
                             0.00 |
                                      100 |
                                                  30 |
                                | AKHOO | 515.127.4562
     115 | Alexander | Khoo
                                                             | 1987-07-02 |
PU CLERK | 3100.00 |
                             |0.00|
                                       114
                                                  30 |
     116 | Shelli
                             | SBAIDA | 515.127.4563
                   | Baida
                                                          | 1987-07-03 |
PU CLERK | 2900.00 |
                             0.001
                                       114
                                                  30 |
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Ques 12 Write a query to list the number of jobs available in the employees table.

Ques 13 Write a query to get the total salaries payable to employees

Ques 14 Write a query to get the minimum salary from the employees table.

Oues 15 Write a query to get the maximum salary of an employee working as a Programmer.

Solution:

Create table employees (employee id number, first name varchar(30), last name varchar(30), email varchar(35), phone_number varchar(30), hire_date date, job_id varchar(10), salary float, commission_pct float, manager_id number, department id number(10));

Table created. 2023 Oracle - Live SOL 22.4.1. running Oracle Database 19c FE Extra insert into employees

values(100, 'Steven', 'King', 'SKING', '515.123.4567', to date('17-06-1987', 'DD-MM-YYYY'), 'AD_PRES',24000.00,0.00,0,90);







insert into employees values(101,'Neena','Kochhar','NKOCHHAR','515.123.4568', to_date('18-06-1987', 'DD-MMYYYY'),'AD VP',17000.00,0.00,100,90);

insert into employees values(102,'Lex','De Haan','LDEHAAN','515.123.4569', to_date('19-06-1987', 'DD-MMYYYY'),'AD_VP',17000.00,0.00,100,90);

insert into employees values(103,'Alexander','Hunold','AHUNOLD','590.423.4567', to_date('20-06-1987', 'DD-MMYYYY'),'IT_PROG',9000.00,0.00,102,60);

insert into employees values(104,'Bruce','Ernst','BERNST','590.423.4568', to_date('21-06-1987', 'DD-MMYYYY'),'IT PROG',6000.00,0.00,103,60);

insert into employees values(105, 'David', 'Austin', 'DAUSTIN', '590.423.4569', to_date('22-06-1987', 'DD-MMYYYY'), 'IT_PROG', 4800.00, 0.00, 103, 60);

insert into employees values(106, 'Valli', 'Pataballa', 'VPATABAL', '590.423.4560', to_date('23-06-1987', 'DD-MMYYYY'), 'IT_PROG', 4800.00, 0.00, 103, 60);

insert into employees values(107, 'Diana', 'Lorentz', 'DLORENTZ', '590.423.5567', to_date('24-06-1987', 'DD-MMYYYY'), 'IT PROG', 4200.00, 0.00, 103, 60);

insert into employees values(108,'Nancy','Greenberg','NGREENBE','515.124.4569', to_date('25-06-1987', 'DD-MMYYYY'),'FI_MGR',12000.00,0.00,101,100);

insert into employees values(109, 'Daniel', 'Faviet', 'DFAVIET', '515.124.4169', to_date('26-06-1987', 'DD-MMYYYY'), 'FI_ACCOUNT', 9000.00, 0.00, 108, 100);

insert into employees values(110,'John','Chen','JCHEN','515.124.4269', to_date('27-06-1987', 'DD-MMYYYY'),'FI_ACCOUNT',8200.00,0.00,108,100);

insert into employees values(111, Ismael', 'Sciarra', 'ISCIARRA', '515.124.4369', to_date('28-06-1987', 'DD-MMYYYY'), 'FI_ACCOUNT', 7700.00, 0.00, 108, 100);

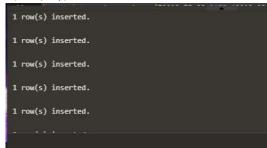
insert into employees values(112, 'Jose Manuel', 'Urman', 'JMURMAN', '515.124.4469', to_date('29-06-1987', 'DD-MMYYYY'), 'FI_ACCOUNT', 7800.00, 0.00, 108, 100);

insert into employees values(113,'Luis','Popp','LPOPP','515.124.4567', to_date('30-06-1987', 'DD-MMYYYY'),'FI_ACCOUNT',6900.00,0.00,108,100);

insert into employees values(114,'Den','Raphaely','DRAPHEAL','515.127.4561', to_date('01-07-1987', 'DD-MMYYYY'),'PU MAN',11000.00,0.00,100,30);

insert into employees values(115,'Alexander','Khoo','AKHOO','515.127.4562', to_date('02-07-1987', 'DD-MMYYYY'),'PU_CLERK',3100.00,0.00,114,30);

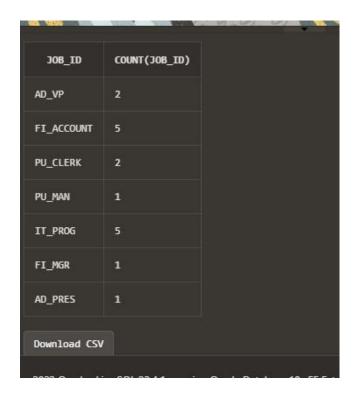
insert into employees values(116, 'Shelli', 'Baida', 'SBAIDA', '515.127.4563', to_date('03-07-1987', 'DD-MMYYYY'), 'PU_CLERK', 2900.00, 0.00, 114, 30);



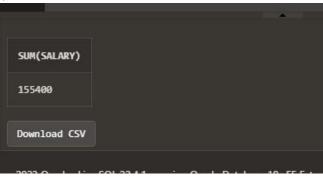
select job_id, count(job_id)from employees group by job_id;







select sum(salary) from employees;



select min(salary) from employees;



select max(salary) from employees where job_id='IT_PROG';









