Assignment-2

Thota GuruTheja Reddy

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I. General Hardware Database:

Sales Person(SalesPersonNumber, SalesPersonName, CommPercentage, YearHire, OfficeNumber)

Customer (CustomerNumber, CustomerName, SalesPersonNumber, HeadQuarterCity)

Customer Employee (CustomerNumber, EmployeeNumber, EmployeeName, Title)

Product (ProductNumber, ProductName, UnitPrice)

Sales (SalesPersonNumber, ProductNumber, Quantity)

Office (OfficeNumber, Telephone, Size)

```
Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> create table sales_person(salesperson_number number(10),salesperson_name varchar(20),comm_percentage number(2),year_hire number(4),office_number number(10));

Table created.

SQL> create table customer_employee(customer_number number(10),employee_number number(10),employee_name varchar(20),title varchar(20));

Table created.

SQL> create table customer(customer_number number(10),customer_name varchar(20),salesperson_number number(10),headquarter_city varchar(20));

Table created.

SQL> create table product(product_number number(10),product_name varchar(20),unit_price varchar(20));

Table created.

SQL> create table sales(salesperson_number number(10),product_number number(10),quantity number(10));

Table created.

SQL> create table office(office_number number(10),telephone number(10),dimension number(10));

Table created.
```

Inserting sales person details

```
SQL> insert into sales_person values(186, 'gurutheja',10,2016,42);

1 row created.

SQL> insert into sales_person values(25, 'bhuvanesh',10,2017,45);

1 row created.

SQL> insert into sales_person values(23, 'ujwal',4,2016,42);

1 row created.
```

1. Find the commission percentage and year of hire of salesperson number 186.

2.List the salesperson numbers and salesperson names of those salespersons who have a commission percentage of 10.

3.List the salesperson number and salesperson name of all of the salespersons.

4.List the salesperson numbers, salesperson names, and commission percentages of the salespersons whose commission percentage is less than 12.

Inserting customer details

```
SQL> insert into customer values(1782, 'srinivas', 186, 'newyork');

1 row created.

SQL> insert into customer values(1700, 'charan', 25, 'atlanta');

1 row created.

SQL> insert into customer values(1230, 'prabhat', 186, 'newyork');

1 row created.

SQL> insert into customer values(1530, 'abhishek', 23, 'atlanta');

1 row created.
```

5.List the customer numbers and headquarters cities of the customers that have a customer number of at least 1700.

```
SQL> select customer_number,headquarter_city from customer where customer_number>=1700;

CUSTOMER_NUMBER HEADQUARTER_CITY

1782 newyork
1700 atlanta
```

6.List the customer numbers, customer names, and headquarters cities of the customers that are headquartered in New York and that have a customer number higher than 1500.

```
SQL> select customer_number,customer_name,headquarter_city from customer where headquarter_city='newyork' and customer_number>1500;

CUSTOMER_NUMBER CUSTOMER_NAME HEADQUARTER_CITY

1782 srinivas newyork
```

7. List the customer numbers, customer names, and headquarterscities of the customers that are headquartered in New York or that have a customer number higher than 1500.

```
SQL> select customer_number,customer_name,headquarter_city from customer where headquarter_city='newyork' or customer_number>1500;

CUSTOMER_NUMBER CUSTOMER_NAME HEADQUARTER_CITY

1782 srinivas newyork
1700 charan atlanta
1230 prabhat newyork
1530 abhishek atlanta
```

8.List the customer numbers, customer names, and headquarters cities of the customers that are headquartered in New York or that satisfy the two conditions of having a customer number higher than 1500 and being headquartered in Atlanta.

```
SQL> select customer_number,customer_name,headquarter_city from customer where headquarter_city='newyork' or customer_number>1500 and headquarter_city='atlanta';

CUSTOMER_NUMBER_CUSTOMER_NAME HEADQUARTER_CITY

1782 srinivas newyork
1700 charan atlanta
1230 prabhat newyork
1530 abhishek atlanta
```

9. Which cities serve as headquarters cities for General Hardware customers?

```
SQL> select headquarter_city from customer;

HEADQUARTER_CITY
------
newyork
atlanta
newyork
atlanta
```

10. Find the customer numbers, customer names, and headquarters cities of those customers with customer numbers greater than 1000. List the results in alphabetic order by headquarters cities.

11. Find the average number of units of the different products that Salesperson 137 sold (i.e., the average of the quantity values in the first three records of the SALES table).

```
SQL> SELECT AVG(quantity) FROM sales Where salesperson_number=137 ;

AVG(QUANTITY)

------
5
```

12. What is the largest number of units of Product Number 21765 that any individual salesperson has sold?

```
SQL> SELECT Max(quantity) FROM sales where product_number=21765;

MAX(QUANTITY)

5
```

13. How many salespersons have sold Product Number 21765?

```
SQL> SELECT count(salesperson_number) FROM sales where product_number=21765;

COUNT(SALESPERSON_NUMBER)

1
```

14. Find the total number of units of all products sold by each salesperson.

```
SQL> select salesperson_number,sum(quantity)
2 from sales
3 group by salesperson_number;

SALESPERSON_NUMBER SUM(QUANTITY)

25 70

137 15

23 50

186 68

SOL>
```

15. Find the total number of units of all products sold by each salesperson whose salesperson number is at least 150.

16.

Find the total number of units of all products sold by each salesperson whose salesperson number is at least 150.

17.

Find the total number of units of all products sold by each salesperson whose salesperson number is at least 150. Include only salespersons whose total number of units sold is at least 5000.

```
SQL> select salesperson_number,sum(quantity) from sales where salesperson_number>=150
2 group by salesperson_number
3 having sum(quantity)>=5000;
no rows selected
```

18. Find the name of the salesperson responsible for Customer Number 1525.

19. List the *names* of the products of which salesperson Adams has sold more than 2000 units.

20. Which salespersons with salesperson numbers greater than 200 have the lowest commission percentage?