

**SQL Template Programs**

Q.1) Create Table & Insert Records

**Salesman Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Primary Key** | **NULL** |
| Salesman\_Id | int | 6 | Yes | NOT NULL |
| Name | varchar2 | 20 | No | NOT NULL |
| City | varchar2 | 20 | No | NOT NULL |
| Commission | Float | 7,2 | No | NOT NULL |

|  |  |  |  |
| --- | --- | --- | --- |
| **Salesman\_Id** | **Name** | **City** | **Commission** |
| 1001 | Nick Rimando | NewYork | 2000 |
| 1002 | Fabian Johns | Paris | 3000 |
| 1003 | Geoff Camero | London | 1500 |
| 1004 | Jozy Altidor | Berlin | 2500 |
| 1005 | Brad Davis | NewYork | 1200 |

**Customer Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Primary Key** | **NULL** |
| Customer\_Id | int | 5 | YES | NOT NULL |
| Cust\_Name | varchar2 | 20 | No | NOT NULL |
| City | varchar2 | 20 | NO | NOT NULL |
| Grade | int | 5 | NO | NOT NULL |
| Salesman\_ID | int | 6 | NO | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Customer\_Id** | **Cust\_Name** | **City** | **Grade** | **Salesman\_ID** |
| 3001 | Julian Green | Paris | 100 | 1002 |
| 3002 | Brad Guzan | Berlin | 200 | 1001 |
| 3003 | John | London | 300 | 1001 |
| 3004 | Mac | London | 100 | 1003 |
| 3005 | Smith | Rome |  | 1004 |

**Order Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Primary Key** | **NULL** |
| Order\_No | Int | 10 | Yes | NOT NULL |
| Purchase\_Amt | Float(7,2) | 10 | No | NOT NULL |
| Order\_Date | varchar2 | 25 | No | NOT NULL |
| Customer\_Id | varchar2 | 25 | No | NOT NULL |
| Salesman\_Id | int | 6 | No | NOT NULL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Order\_No** | **Purchase\_Amt** | **Order\_Date** | **Customer\_Id** | **Salesman\_Id** |
| 201 | 3000.45 | 5-Aug-2015 | 3001 | 1002 |
| 202 | 450.65 | 4-Jul-2015 | 3002 | 1001 |
| 203 | 650.56 | 6-Aug-2016 | 3004 | 1003 |
| 204 | 1200 | 7-Sep-2016 | 3003 | 1004 |
| 205 | 700.56 | 4-jul-2015 | 3002 | 1001 |

**[Retrieve Data From Tables ,update ,delete ]**

Q.2) Write a SQL statement to display all Information from Customer Table.

Q.3) Write a SQL statement to display Order Number , Customer Id and Salesman Id and Purchase Amount for all orders.

Q.4) Write a SQL statement to display Name & City of salesman who belongs to the city of London.

Q.5) Write a SQL statement to display all information for those customer with a grade of 200.

Q.6) Write a SQL statement to display all information where order\_date is 4-jul-2015 from order table.

Q.7) Increase 10% commission to each salesman.

Q.8) Delete the customer where grade value is 300.

Q.9) Display the structure of Customer Table.

**[Operators]**

Q.10) Write a query to display all customers with grade above 100.

Q.11) Write a query to display all customers in New York who have a grade value above 100.

Q.12) Write a query to display all customers who are either belongs to the city new York or had a grade above 200.

Q.13) Write a query to display those orders which is not issued on date 5-Aug-2015.

Q.14) Write a query to display information about salesman who are coming from city Paris or New York.

Q.15) Write a query to display all information about customers whose Customer Id value is within 3001 ,3002 ,3004.

Q.16) Write a query to filter all those orders which purchase amount is within range of 600 and 4000.

Q.17) Write a query to find all those salesman whose name started with letter 'S'.

Q.18) Write a query to find all those Customer whose name ending with letter 'n'.

Q.19) Write a query to find all those Customer whose grade value is null.

**[Aggregate Function]**

Q.20) Write a query to find total purchase amount of all orders.

Q.21) Write a query to find Average purchase amount of all orders.

Q.22) Write a query to find total number of salesman for all customers.

Q.23) Write a query to find maximum purchase amount of all orders.

Q.24) Write a query which selects the highest grade value for each cities of the customers.

Q.25) Write a query to display customer details whose Id are within range 3002 and 3004 and highest purchase amount is more than 1000.

Q.26) Write a query to display Highest purchase amount for only those salesman whose id is within the range 1001 and 1003.

[**Scalar Function**]

Q.27) Display the Customer name in Uppercase letter where city is London.

Q.28) Display the length of Customer Name As Total Character Length .

Q.29) Display the order number ,order date , round the purchase amount.

Q.30 ) Display the first Four characters of salesman name from salesman table.

**[SQL Formatting Query Output]**

Q.31) Write a SQL query to find the orders booked in each day.

Q.32) Write a SQL query to display the orders according to the order arrange by ascending order.

Q.33) Write a query to display order date in the format [Year Month Date].

Q.34) Write a query to display order details in descending order of Purchase Amount.

**[Query On Multiple Tables]**

Q.35) Write a query to find those customers with their names and those salesman with their name and city who lives in the same city.

Q.36) Write a query to find the name of all customers along with the salesman who work for them.

Q.37) Write a query to make a list with order\_no , purchase amount ,customer name and their cities for those orders which order amount between 500 and 200.

Q.38) Write a query to display customer name, city ,order number,order date ,purchase amount from existing list who placed one or more orders who are not in the list.[**Hint :** Full Outer Join]

Q.39) Write a query to display Customer name , City ,order number ,date and amount in ascending order on order date to find either any of the existing customer have placed no order or placed one or more orders.[**Hint :** LEFT Outer Join]

[**UNION** ]

Q.40) Write a query to display all salesman and customer located in London.

Q.41) Write a query to display distinct salesman and their cities.

[**View** ]

Q.42) Write a query to create a view for all salesman with columns salesman Id,name and city .

Q.43) Write a query to create a view to get count of how many customers we have at each level of grade.

Q.44) Write a query to create a view that find the salesman who has the customer with highest order on a day.

Q.45) Write a query to create a view that shows all matches of customers with salesman such that at least one customer in the city of customer served by salesman in the city of salesman.

Q.46) Write a query to create a view that shows the number of orders each day.

[**Subquery**]

Q.47) Write a query to display all the orders from the orders table issued by the salesman 'Davis'.

Q.48) Write a query to display all the orders for the salesman who belongs to the city 'London'.

Q.49) Write a query to display all customers with orders on July 4,2015.

Q.50) Write a query to find all those customers whose grade are not as the grade , belongs to the city Paris.

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