**NHT Program**

**RDBMS Exercise**

**Exercise – 1**

**Table Creation**

**Create table Sales\_Rep, Consumer and Invoice as per the structure given below :**

**Table : Sales\_Rep**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| Rep\_ID | int (8) | NO | PRI | NULL |  |
| Name | varchar(30) | NO |  | NULL |  |
| City | varchar(15) | NO |  | NULL |  |
| Commision | double(5,2) | NO |  | NULL |  |

**Table : Consumer**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| Consumer\_ID | int(5) | NO | PRI | NULL |  |
| Consumer\_Name | varchar(30) | NO |  | NULL |  |
| City | varchar(15) | NO |  | NULL |  |
| Grade | int(3) | Yes |  | NULL |  |
| Rep\_ID | int(8) | No | Foreign Key | NULL |  |

**Table : Invoice**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| Invoice\_ID | int(5) | NO | PRI | NULL |  |
| Invoice\_amount | double | NO |  | NULL |  |
| Invoice\_Date | Date | NO |  | NULL |  |
| Consumer\_ID | int(5) | NO |  | NULL |  |
| Rep\_ID | int(8) | Yes | Foreign Key | NULL |  |

**Exercise – 2**

**Data Insertion**

**Insert the following data to the repective table**

**Table : Sales\_Rep**



**Table : Consumer**



**Table : Invoice**



**Exercise – 3**

**Selection**

Write a SQL Query to retrieve the details of the Consumer like

Consumer\_ID, Consumer\_Name, City , Grade , Rep\_ID who are from

Bangalore and Kolkatta.

Write a SQL Query to retrieve the details of the Invoice

like Invoice\_ID, Invoice\_Date, Consumer\_ID, Rep\_ID, Invoice\_Amount

whose Invoice\_Amount is more than 5000.

Write a SQL Query to retrieve the details of the Sales Rep like

Rep\_ID, Name, City ,Commision who are from city that ends with 'i'

**Exercise – 4**

**Projection**

Write a SQL statement to display specific columns like name, city and commision for all the salesmen.

Write a query to display all the details of the Invoice like Invoice\_Date,

Rep\_ID, Invoice\_ID and Invoice\_Amount.

**Exercise – 5**

**OrderBy, GroupBy Clauses**

Write a SQL Statement to fetch the Details Consumer like

Consumer\_ID, Consumer\_Name , City , Grade in alphabetical

order of Name.

Write a SQL statement which selects the highest Invoice Value

for each Sales Rep.

**Exercise – 6**

**SQL Joins**

Write a SQL statement to find the list of Consumers and Sales\_Rep

who lives in the same city where their customer lives,

and gets a commission is above 12%.

Write a SQL statement to find the details of a Invoice

i.e. Invoice\_ID, Invoice\_Date, Invoice\_Amount,

which Consumer gives the order and which salesman works

for that Consumer and commission rate he gets for an order.

**Exercise – 7**

**SubQueries**

Write a query to display all the Invoice details for the

salesman who belongs to the city Kolkatta.

Write a query to find all Invoices with Invoice amount which

are above-average amounts for their Consumers.