**ASSIGNMENT NO. 01**

0.1 Create the following tables.

1. Table name client master

|  |  |  |
| --- | --- | --- |
| column name | Data type | Size |
| Client number | Varchar2 | 6 |
| Name | Varchar2 | 20 |
| Address | Varchar2 | 30 |
| city | Varchar2 | 15 |
| State | Varchar2 | 15 |
| Pin code | Number | 8 |

2. Table name product master

|  |  |  |
| --- | --- | --- |
| column name | Data type | Size |
| Product number | Varchar2 | 6 |
| Product name | Varchar2 | 15 |
| Quantity | Number | 5 |
| Sale price | Number | (7,2) |
| Cost price | Number | (7,2) |

3. Table name salesman master

|  |  |  |
| --- | --- | --- |
| column name | Data type | Size |
| salesman number | Varchar2 | 6 |
| Salesman name | Varchar | 20 |
| Address | Varchar2 | 25 |
| City | Varchar | 15 |
| State | Varchar | 15 |
| Salary | Number | (8,2) |
| Mobile number | Number | 11 |

Q.2 Describe a table structure.

1. Insert a five record in above each table.

2. Q.3 Exercise on retrieving records from a table.

3. Find to all the names of clients.

4. Retrieved entire contents of a client master.

5. Retrieve the list of name, city & a state of a client.

6. List the various product available from the product master table.

7. List all the clients who are located in a Jaysingpur.

8. Find out all the names of salesman who have salary=5000.

Q.3 Exercise on updating records in a table.

1. Change the city if client number c5 to Bangalore.

2. Change the address of a salesman whose state is Tamilnadu.

3. Change the cost price of monitor to 11000.

Q.4 Exercise on deleting record in a file.

1. Delete all salesman in the salesman master table whose salary is <2000.

2. Delete all the product from product master table where quantity=2.

3. Delete clients from client master table where the column state holds the value Tamilnadu.

Q.5 Exercise on altering the table stricture.

1. Alter a column address varchar2 size 35 to the client master tale.

2. Change the size of sale price column in a product master table to (10,2).

Q.6 Exercise on the renaming the table name.

1. Change the name of salesman master to sale master.

Q.7 Exercise on deleting the table structure along with the data.

1. Delete all records of product master table.

2. Drop table client master.

**ASSIGNMENT NO. 02**

Q.1 Create table student.

|  |  |  |
| --- | --- | --- |
| column name | Data type | Size |
| Roll No | Varchar2 | 6 |
| Name | Varchar2 | 20 |
| Sub1 | Varchar2 | 5 |
| Sub2 | Varchar2 | 5 |
| Sub3 | Varchar2 | 5 |

Q.2 Insert five records in above table.

Q.3 Perform the following queries given below.

1. Display the maximum total marks of student.

2. Display the minimum total marks of student.

3. Count total records having marks of sub 1>50.

4. Display sum of total having name start from S.

5. Calculate total & percentage of each record & disply the list.

6. Display the record which contain name ‘Akshata Labaje’ and ‘Pranali Gare’ using in command.

7. Display the record of roll no 3, 4 , 5 using not in command.

Q.4 Perform the following queries given below.

1. Display the name in lower case whose percentage>50.

2. Display the name in upper case whose roll no is in between 1 & 4.

3. Display the name in initial capital letter whose second letter of name is 'A'.

4. Display the length of each name of the student in ascending order.

Q.5 Perform the following queries given below.

1. Find out the absolute value of number (33.584) using abs ()?

2. Find out power of number (2, 3) using a power 0.

3. Find out the value of number (19.75, 1) using round 0.

4. Find out a square root of a number (121) using sqrt O.

5. Find out mod of a number (15, 2) using a mod ().

**ASSIGNMENT NO. 03**

Q.1 Create the following tables.

Table name:-Courses

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| Ccode | Varchar2 |  | Primary key |
| Name | Varchar2 |  | Unique |
| Duration | Number |  |  |
| Fee | Number |  |  |
| Prerequisite | Varchar2 |  |  |

Table name:-faculty

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| Fcode |  |  | Primary key |
| Name |  |  |  |
| Qual |  |  |  |
| exp | Varchar2 |  |  |

Table name:-Course\_faculty

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| Fcode | Varchar2 |  | Primary key |
| ccode | Varchar2 |  |  |
| Grade | Varchar |  |  |

Table name:-Batches

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| bcode | Varchar2 |  | Primary key |
| Ccode | Varchar2 |  | Foreign key |
| Fcode | Varchar2 |  | Foreign key |
| St\_date | Date |  |  |
| End\_date | Date |  |  |
| Timing | Number |  |  |

Table name:-stud

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| Roll\_no | Number |  | Primary key |
| Bcode | Varchar2 |  | Foreign key |
| Name | Varchar2 |  |  |
| Gender | Varchar |  |  |
| Dj | Date |  |  |
| Phone | Varchar2 |  |  |
| Email | Varchar2 |  |  |

Table name:-payment

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type | size | Attributes |
| Roll\_no | number |  | Foreign key |
| Dp | Date |  |  |
| amount | Number |  |  |

Q.2 Insert 5records in a above each table.

Q.3 Exercise on the following queries.

a) Count the number of students we have in each batch using group function cont?

b) Display the total amount of fee paid by each students.

c) Count the number of student who have set paid amount.

d) To display the subject & date on which the most recent batch of that subject has started.

e) To display the number of batches to started for each in last 3 months.

f) To display the highest courses fee.

g) To display the date on the last batch was taken by each faculty for each subject.

h) To display the courses those have got more than one batch.

i) To display the courses that we started for more than 1 in the last 6 month.

j) To display number of courses taken by each faculty.

Q.4 Exercise on the following queries.

a) Find out the name, qualification from faculty table where ccode is 'ora'.

b) To display the details of faculty members who have not taken any batches in the last 3 months.

c) Find out the query which display the details of batches that are taken by faculty with qualification 'ms' or the courses fee is more than 5000.

d) To display the details of students who belong to the batches that are taken by faculty with qualification.

e) To display the details of batches that have taken maximum duration among the batches of some courses.

f) To display the details of courses that has highest courses fee.

g) The following UPDATE command increases the FEE of the course if more than 3 batches have started for that course.

h) Find out delete command uses sub query is where clause to batches for which there are no student.

i) Find out sub query in which create a new table from an existing table.

j) Find out update command to update fcode of batch B7 to the faculty code the batch B1.

k) Find out correlated query to get details of batches where duration (endate-sdate) is more than the avg duration of the course.

I) Find out co-related sub query where we get third highest course fee.

m) Find out the query uses order by clause of sub query to retrieve courses in the ascending order of fee in which the query retrieves only first two rows of the sub query.

n) Find out the query uses a co-related sub query to get number of rows where fee is less than the fee of the row in query. If the count returned by sub query is greater than or equal to 1 then row of the query retrieved