

Group B
Assignment No. 6

- Aim:
Write various conditional select queries (SQL) on above DB.

- Problem Statement :-
Write following conditional select queries on above DB.

A) Aggregate functions (count, sum, avg, etc)

- i) Get the total no. of customers
- ii) Display average purchase amount of all customers.
- iii) Display total purchase amount of all the customers.

B) Built in functions (now(), date(), day(), time(), etc)

- i) Find DAYNAME, MONTHNAME and YEAR of the purchase order made on "1995-11-2016"
- ii) Get current date and time, current time, current date
- iii) Get 6 month future and past date using interval function based on current date and name of column resp.
- iv) Find purchase details of the customers group by product category.
- v) Find the purchase details of all the customers who made shopping today.

Objective :

- 1) To understand use of various DDL & DQL statement with clause and nested queries, DCL commands.
- 2) To understand use of various functions - aggregate, arithmetic and nested queries.
- 3) To understand the SQL built in functions (now(), date(), day(), time(), etc).

Theory :-

Select command :

The select command is the most commonly used command in SQL. It allows database users to retrieve the specific information they desire from an operational database.

Select A_1, A_2, \dots from table-name where A_1, A_2, \dots is the list of attributes.

Aggregate functions :-

1) sum :-

Select sum(salary) as total from account

2) avg :-

Select avg(balance) as average price from account where branch-name = 'Delhi'

3) count :-

Select count(*) as no. of orders from account.

4) max and min :

Select max(balance), min(balance) from account

Date data types

i) DATETIME : YYYY-MM-DD HH:MM:SS

ii) TIMESTAMP : A unique number

Conclusion:

By performing this assignment we are able to understand to retrieve data from database with the help of sql statement and operators.