

ASSIGNMENT 6

Aim : Write various conditional select queries on above DB

Problem statement : Conditional select queries

A] Aggregate functions (count, sum, average, etc)

- Get total no. of customers
- Display avg. purchase amount of all customers
- Display total purchase of all customers.

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

- Find Dayname, MonthName & Year of purchase order made on "1995-11-2016"
- Get current date and time
- Get 6 months future and past date using interval function based on current date and name of the column accordingly.
- Find purchase details of the customers group by product category

Objective :

- To understand use of various DML, DDL statement with clause and nested queries DCL commands
- To understand use of various functions, Aggregate arithmetic and nested queries
- To understand SQL built in functions (now(), date(), day(), time(), etc)

Theory :-

Select command -

Select A1, A2, A3 ... from table_name where pred.

Eg : Select * from account where balance > \$50000

Aggregate Functions -1) SUM

```
select sum(salary) as total from account ;
```

total
1500

2) AVG

```
select avg(balance) as average Price from account
where branch_name = 'delhi' ;
```

3) COUNT

```
select count(*) as 'Number of Large Orders' from
account where balance > 10000 ;
```

4) MAX and MIN

```
select max(balance) and as 'Largest Balance' from account ;
```

SQL Date Datatypes -

- DATE Format : YYYY-MM-DD
- DATETIME Format : YYYY-MM-DD HH:MM:SS
- TIMESTAMP Format : YYYY-MM-DD HH:MM:SS
- YEAR Format : YYYY or YY

SQL working with dates

```
select * from orders where orderdate = '2008-11-11'
```

Conclusion :

I understood to retrieve date from database with the help of SQL statement and operators.