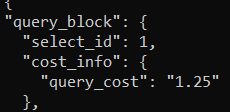
**Assignment 10**

**Create appropriate indexes to solve following problems.**

**Note : use “sales” database to solve below queries.**

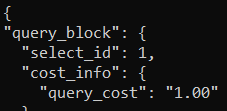
1. Create an index that will enable a user to pull orders for ‘1990-10-03’ out of the Orders table quickly.

Before indexing- **explain format = json select \* from orders where odate='1990-10-03';**



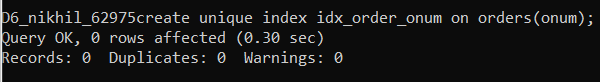
For indexing-**create index idx\_order\_odate on orders(odate);**

After indexing- **explain format = json select \* from orders where odate='1990-10-03';**



1. If the Orders table has already been created, how can you force the onum field to be unique (assume all current values are unique)?

**create unique index idx\_order\_onum on orders(onum);**

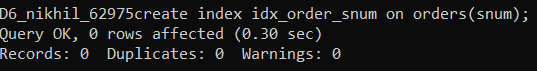


**insert into orders(onum) values(3005);**

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1. Create an index that would permit salesperson to retrieve his orders.

**create index idx\_order\_snum on orders(snum);**



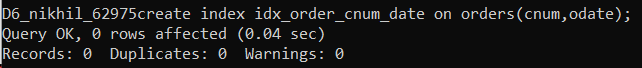
1. Let us assume that each salesperson is to have only one customer of a given rating, and that this is currently the case. Create an index that enforces it.

**create unique index idx\_customer\_rating on customers(cnum,rating);**



1. Create an index to speed up searching order on a given date by given customer

**create index idx\_order\_cnum\_date on orders(cnum,odate);**

****