Assignment 2

1. What are the differences between OLTP and OLAP?

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Parameters	OLTP	OLAP
Process	It is an online transactional system. It manages database modification.	OLAP is an online analysis and data retrieving process.
Characteristic	It is characterized by large numbers of short online transactions.	It is characterized by a large volume of data.
Functionality	OLTP is an online database modifying system.	OLAP is an online database query management system.
Method	OLTP uses traditional DBMS.	OLAP uses the data warehouse.
Query	Insert, Update, and Delete information from the database.	Mostly select operations
Table	Tables in OLTP databases are normalized.	Tables in the OLAP database are not normalized.
Data Integrity	OLTP database must maintain data integrity constraint.	The OLAP database does not get frequently modified. Hence, data integrity is not an issue.
Response time	It's response time is in milliseconds.	Response time in seconds to minutes.

2. Demonstrate some commands in snowflake.

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Code:

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create table account1 (
Acc_no varchar2(5),
Name varchar2(20),
City varchar2(15),
Balance number(10,2),
Loan_taken varchar2(10));

insert into account1 values('A001','Patel Jigar','Mehsana',50000,'Yes');
insert into account1 values('A002','Patel Ramesh','Mehsana',50000,'Yes');
insert into account1 values('A003','Dave Hardik','Ahmedabad',75000,'No');
insert into account1 values('A004','Soni Hetal','Ahmedabad',100000,'No');
insert into account1 values('A005','Soni Atul','Vadodara',100000,'Yes');

update account1 set Name = 'Patel Hiren' where Acc_no = 'A001';
select * from account1;
```

Output:

Row	ACC_NO	NAME	CITY	BALANCE	LOAN_TAKEN
1	A001	Patel Hiren	Mehsana	50000.00	Yes
2	A002	Patel Ramesh	Mehsana	50000.00	Yes
3	A003	Dave Hardik	Ahmedabad	75000.00	No
4	A004	Soni Hetal	Ahmedabad	100000.00	No
5	A005	Soni Atul	Vadodara	100000.00	Yes