

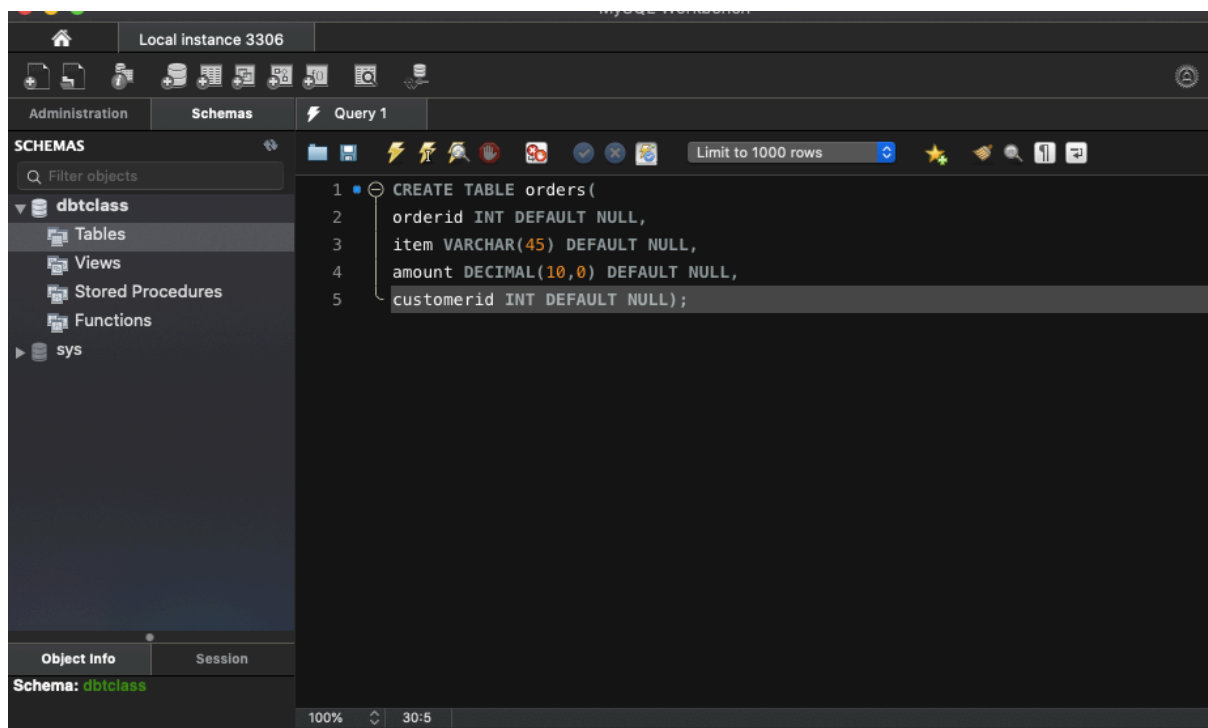
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PES2UG19CS013
DBT lab-4

a) Create optimum no of indexes on different tables of the selected mini-world

database.

b) After creating indexes run Explain Plans and compare it with previous Explain Plans.

c) Demonstrate the improvement in Cost of Query.



Local Instance 3306

Administration Schemas Query 1 SQL File 1* SQL File 2*

SCHEMAS

Filter objects

dbtclass

- Tables
- Views
- Stored Procedures
- Functions
- sys

Object Info Session

Schema: dbtclass

```
1 CREATE TABLE customer(  
2   customerid int DEFAULT NULL,  
3   name VARCHAR(45) DEFAULT NULL,  
4   city VARCHAR(45) DEFAULT NULL  
5 );
```

100% 3:5

Action Output

	Time	Action	Response	Duration / Fetch Time
9	19:41:45	INSERT INTO customer v...	1 row(s) affected	0.0013 sec

Administration Schemas Query 1 SQL File 1* SQL File 2*

SCHEMAS

Filter objects

dbtclass

- Tables
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Object Info Session

Schema: dbtclass

```
1 INSERT INTO customer values(11,'anand','Bangalore');  
2 INSERT INTO customer values(12,'anju','Bangalore');  
3 INSERT INTO customer values(11,'david','Bangalore');  
4 INSERT INTO customer values(11,'ajay','Bangalore');  
5 INSERT INTO customer values(11,'Kevin','Bangalore');  
6 INSERT INTO customer values(11,'Lakshmi','Bangalore');
```

100% 55:6

Action Output

	Time	Action	Response	Duration / Fetch Time
9	19:41:45	INSERT INTO customer v...	1 row(s) affected	0.0013 sec
10	19:41:45	INSERT INTO customer v...	1 row(s) affected	0.0011 sec

Administration

Schemas

0

1

2

3

SCHEMAS

Filter objects

dbtclass

Tables

customer

Columns

Indexes

Foreign Keys

Triggers

orders

Columns

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Object Info

Session

Table: orders

Columns:

orderid

int

item

varchar(45)

amount

decimal(10,0)

customerid

int

Limit to 1000 rows

1

2

3

4

5

6

7

8

9

INSERT INTO orders values(1001,'Pens',1000,11);

INSERT INTO orders values(1002,'Cups',2000,11);

INSERT INTO orders values(1003,'Toys',10000,12);

INSERT INTO orders values(1004,'Notebook',1000,12);

INSERT INTO orders values(1005,'Clips',100,13);

INSERT INTO orders values(1006,'Misc',10000,13);

INSERT INTO orders values(1007,'Pens',100,13);

INSERT INTO orders values(1003,'Misc',100,11);

INSERT INTO orders values(1012,'notebooks',1000,11);

100%

53:9

Action Output

Time

Action

Response

Duration / Fetch Time

7

18:57:20

INSERT INTO orders valu...

1 row(s) affected

0.00081 sec

8

18:57:20

INSERT INTO orders valu...

1 row(s) affected

0.00087 sec

100% 1:4

View Source: 

 Execution Plan

100% 49:5



Execution Plan

6

7

```
create index cindex on customer(customerid);
```

100%

1:7

Action Output

	Time	Action	Response	Duration / Fetch Time
✖ 27	19:24:16	EXPLAIN ANALYZE SELECT c.name,c.city,o.amount FROM customer c, dbtclass...	Error Code: 1064, You have an error in your SQL synta...	0.00034 sec
✖ 28	19:24:37	EXPLAIN ANALYZE SELECT c.name,c.city,o.amount FROM customer c,dbtclass.or...	Error Code: 1064, You have an error in your SQL synta...	0.00036 sec
✔ 29	19:26:19	create index cindex on customer(customerid)	0 row(s) affected Records: 0 Duplicates: 0 Warnings...	0.145 sec

Indexes

Foreign Ke...

Triggers

orders

Columns

Indexes

Foreign Ke...

Triggers

Views

Stored Proced...

Functions

Object Info

Session

Table: orders

Columns: orderid int

7

8

9

10

11

12

```
create index cindex on customer(customerid);
SELECT c.name,c.city,o.amount
FROM customer c,dbtclass.orders o
WHERE c.customerid=o.customerid and c.customerid=11;
EXPLAIN ANALYZE SELECT * FROM customer JOIN dbtclass.orders ON (custom )
```

100%

34:9

Result Grid

Filter Rows: Search

Export: [icon]

Result Grid

Form Editor

name	city	amount
▶ anand	Bangalore	1000
david	Bangalore	1000
ajay	Bangalore	1000
Kevin	Bangalore	1000
Lakshmi	Bangalore	1000
anand	Bangalore	2000
david	Bangalore	2000

Result 9

Read Only

