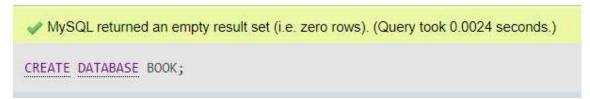
# **BDTM: Big Data Tools for Managers**

# 1<sup>st</sup> Internal Question Paper [Set-B]

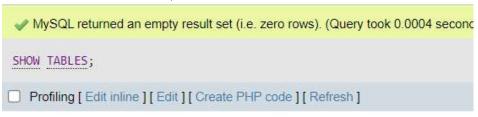
- Q1. Demonstrate Basic database operation with MySQL
  - A. Create a database BOOK in MySQL



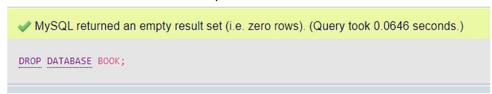
B. List all the databases available in MySQL



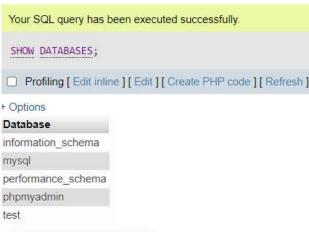
C. Select the BOOK database, and list all the tables available in BOOK database



D. Remove BOOK database from MySQL



E. List all the databases available in MySQL



[10]

PRODUCT_ID	PRODUCT_NAME	MRP	CURRENCY
PRD_1001	Lifebuoy Handwash	100	INR
PRD_1002	Per Cara Pro Shampoo	1.5	USD
PRD_1003	Mamaearth Hair Oil	250	INR
PRD_1004	Liquid Handwash	185	INR
PRD_1005	Mamaearth Shampoo	300	INR

A. Create database SAMPLE, and create above given PRODUCT table in SAMPLE database

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0023 seconds.)
CREATE DATABASE SAMPLE;
[Edit inline] [Edit] [Create PHP code]
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0404 seconds.)
CREATE TABLE PRODUCT ( PRODUCT_ID VARCHAR(10), PRODUCT_NAME VARCHAR(20), MRP FLOAT, CURRENCY TEXT );
LEdit inline 11 Edit 11 Create PHP code 1
```

B. Insert above given sample records in PRODUCT table

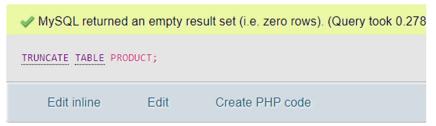
### C. Display PRODUCT table structure

```
DESC PRODUCT;
[Edit inline][Edit][Create PHP code]
```

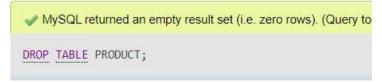
### + Options

Field	Туре	Null	Key	Default	Extra
PRODUCT_ID	varchar(10)	YES		NULL	
PRODUCT_NAME	varchar(20)	YES		NULL	
MRP	float	YES		NULL	
CURRENCY	text	YES		NULL	

#### D. Truncate PRODUCT table



#### E. Delete PRODUCT table from SAMPLE database



USN	NAME	DOB	ADDRESS	CITY	STATE	PINCODE	CGPA
1SI23MBA01	AAA	1995-01-01	B H ROAD	TUMKUR	KARNATAKA	572103	8.5
13123IVIBAU1	AAA	1995-01-01	ВПКОАО	TOWKUK	KARINATAKA	5/2103	8.5
1SI23MBA02	BBB	1996-01-01	BANGALORE	BANGALORE	KARNATAKA	560001	9.5
					WADALATAW		
					KARNATAK		
1SI23MBA02	BBB	1996-01-01	BANGALORE	BANGALORE	A	572103	9.5
					KARNATAK		
1SI23MBA04		1999-01-01	B H ROAD	TUMKUR	Α	572103	8.5
1SI23MBA05	FFF	1999-01-01	B H ROAD				

- A. Create above table "students\_exam" with following constraint
  - USN with UNIQUE constraint
  - NAME with NOT NULL constraint
  - CITY, STATE, PINCODE and CGPA having DEFAULT value TUMKUR, KARNATAKA, 572103 and 0

WySQL returned an empty result set (i.e. zero rows). (Query took 0.0377 seconds.)

CREATE TABLE students\_exam( USN VARCHAR(10) UNIQUE, NAME VARCHAR(20) NOT NULL, DOB DATE, ADDRESS VARCHAR(50), CITY VARCHAR(10) DEFAULT 'TUMKUR', STATE VARCHAR(10) DEFAULT 'KARNATAKA', PINCODE VARCHAR(10) DEFAULT '572103', CGPA float DEFAULT 0);

B. Insert above records into the students\_exam table
(Note: The error message is expected while inserting records into the table and place same error message as part of answers for 3rd, 4th & 5th records)



1 INSERT INTO students_exam VALUES ('15123MBA04', NULL, '1999-01-01', 'B H ROAD', 'TUMKUR', 'KARNATAKA', '560001', 9.5); 2
Clear Format Get auto-saved query
☐ Bind parameters
Bookmark this SQL query:
Delimiter Show this query here again Retain query box Rollback when finished Enable foreign key checks
Error
SQL query: Copy.  INSERT INTO students_exam VALUES ('15123MBA04', NULL, '1999-01-01', 'B H ROAD', 'TUMKUR', 'KARNATAKA', '560001', 9.5);
MySQL said: 😥
#1048 - Column 'NAME' cannot be null
√ 1 row inserted. (Query took 0.0139 seconds.)
INSERT INTO students_exam VALUES ('15I23MBA05', 'FFF', '1999-01-01', 'B H ROAD', NULL, NULL, NULL, NULL);
[Edit inline][Edit][Create PHP code]

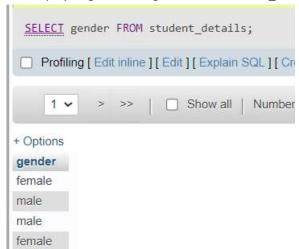
OR

```
1 row inserted. (Query took 0.0174 seconds.)

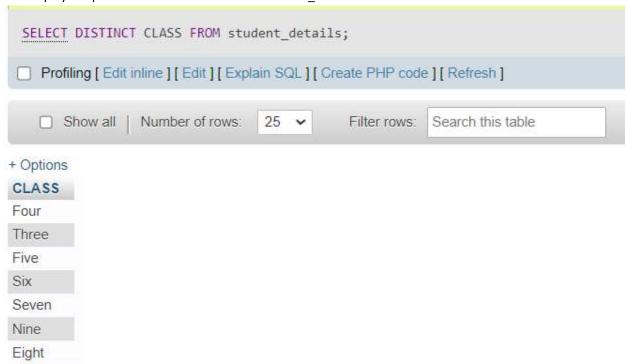
INSERT INTO students_exam (USN, NAME, DOB, ADDRESS) VALUES ('15I23MBA05', 'FFF', '1999-01-01', 'B H ROAD');
```

Copy mysql code from below link and paste into the SQL window to create and insert sample records. After executing given code in selected database new table will be created name "student\_details" <a href="https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/SQL/student\_details.sql">https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/SQL/student\_details.sql</a>

A. Display single column gender from student\_details table



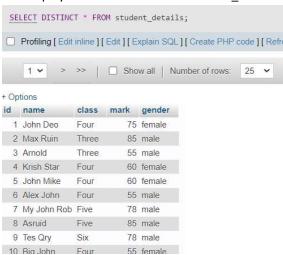
B. Display unique values for class name from student\_details



C. Display unique values name, gender details from student\_details table



D. Display distinct records from student\_details

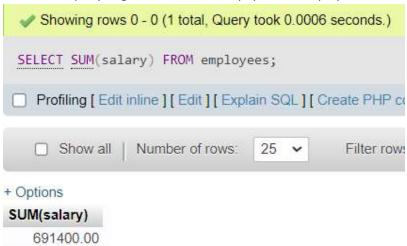


E. Display all the records from student\_details, also sort data in ascending order by name and descending order by gender (everything in one query)

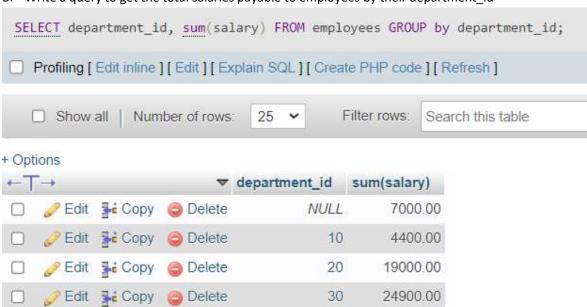


Copy mysql code from given link and paste into the SQL windows to create and insert sample database & tables in MySQL. After executing given code, new database will be created name "bdtm\_exam" in MySQL. https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/SQL/bdtm-exam.sql

A. Write a query to get the total salaries payable to employees



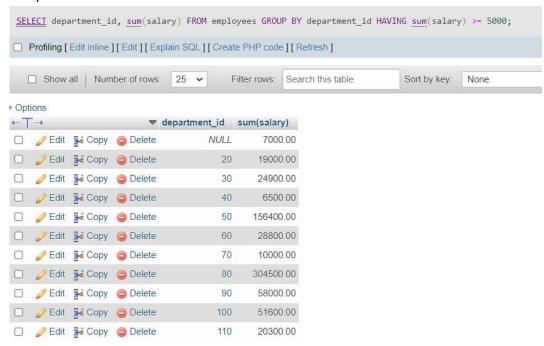
B. Write a query to get the total salaries payable to employees by their department\_id



C. Write a query to get the highest, lowest, sum, and average salary of all employees.



D. Write a query to get the department\_id and total salary of the employees where total salary is greater than or equal to 5000.



E. Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 50 only.

