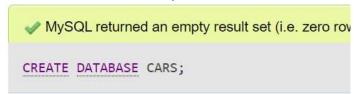
## **BDTM: Big Data Tools for Managers**

# 1<sup>st</sup> Internal Answers [Set-A]

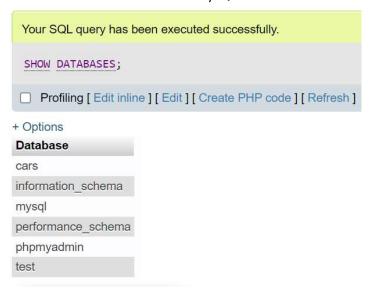
Q1. Demonstrate Basic database operation with MySQL

[10]

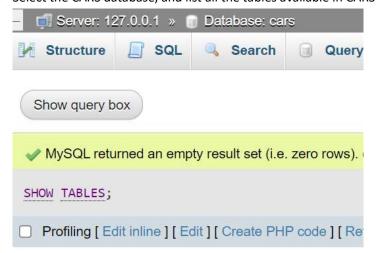
A. Create a database CARS in MySQL



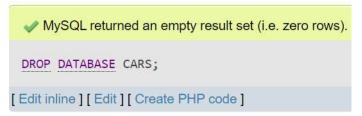
B. List all the databases available in MySQL



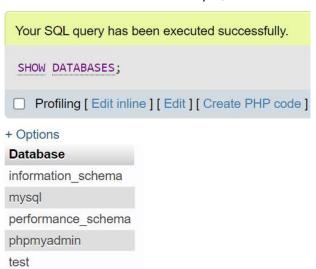
C. Select the CARS database, and list all the tables available in CARS database



D. Remove CARS database from MySQL



E. List all the databases available in MySQL



PRODUCT_ID	PRODUCT_NAME	MRP	CURRENCY
PRD_1001	Mobile Back Cover	150	INR
PRD_1002	Mobile Glass	3	USD
PRD_1003	Flip Cover	250	INR
PRD_1004	Screencast	500	INR
PRD_1005	Earphones	300	INR

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

```
✓ MySQL returned an empty result set (i.e. zero rows).
CREATE DATABASE MOBILE;
[Edit inline] [Edit] [Create PHP code]
```

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0400 seconds.)
CREATE TABLE PRODUCT ( PRODUCT_ID VARCHAR(10), PRODUCT_NAME VARCHAR(20), MRP FLOAT, CURRENCY VARCHAR(10) );
[Edit inline] [Edit] [ Create PHP code]
```

B. Insert above given sample records in PRODUCT table

```
INSERT INTO PRODUCT VALUES("PRD_1001", "Mobile Back Cover", "150", "INR");

[Edit inline][Edit][Create PHP code]

# 1 row inserted. (Query took 0.0165 seconds.)

INSERT INTO PRODUCT VALUES("PRD_1002", "Mobile Glass", "3", "USD");

[Edit inline][Edit][Create PHP code]

# 1 row inserted. (Query took 0.0059 seconds.)

INSERT INTO PRODUCT VALUES("PRD_1003", "Flip Cover", "250", "INR");

[Edit inline][Edit][Create PHP code]

# 1 row inserted. (Query took 0.0041 seconds.)

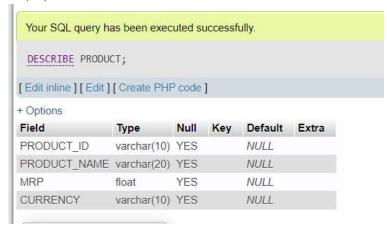
INSERT INTO PRODUCT VALUES("PRD_1004", "Screencast", "500", "INR");

[Edit inline][Edit][Create PHP code]

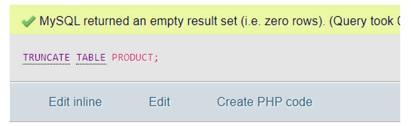
# 1 row inserted. (Query took 0.0042 seconds.)

INSERT INTO PRODUCT VALUES("PRD_1005", "Earphones", "300", "INR");
```

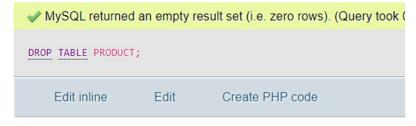
### C. Display PRODUCT table structure



### D. Truncate PRODUCT table



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



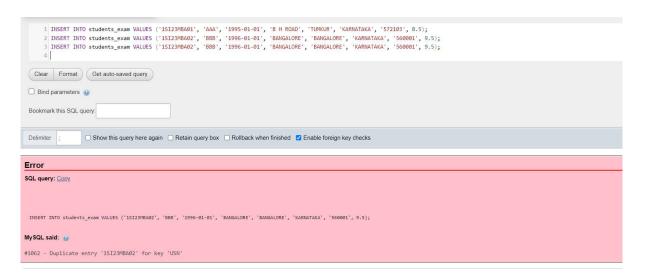
USN	NAME	DOB	ADDRESS	CITY	STATE	PINCODE	CGPA
1SI23MBA01	AAA	1995-01-01	B H ROAD	TUMKUR	KARNATAKA	572103	8.5
1SI23MBA02	BBB	1996-01-01	BANGALORE	BANGALORE	KARNATAKA	560001	9.5
					KARNATAK		
1SI23MBA02	BBB	1996-01-01	BANGALORE	BANGALORE	Α	572103	9.5
					KARNATAK		
1SI23MBA04		1999-01-01	B H ROAD	TUMKUR	A	572103	8.5
1SI23MBA05	FFF	1999-01-01	B H ROAD				

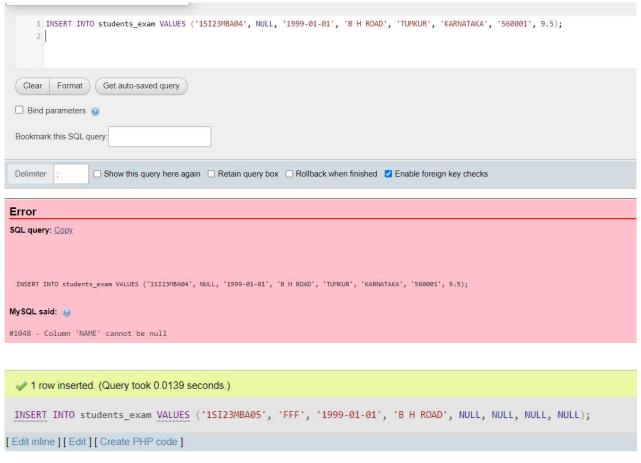
- A. Create above table given table "students\_exam" with following constraint
  - a. USN with UNIQUE constraint
  - b. NAME with NOT NULL constraint
  - c. CITY, STATE, PINCODE and CGPA having DEFAULT value TUMKUR, KARNATAKA, 572103 and 0

✓ MySQL 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)



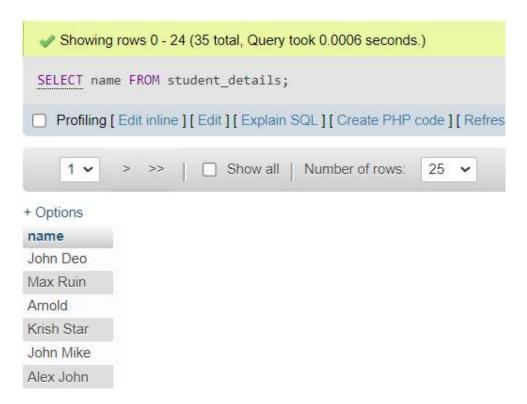


OR

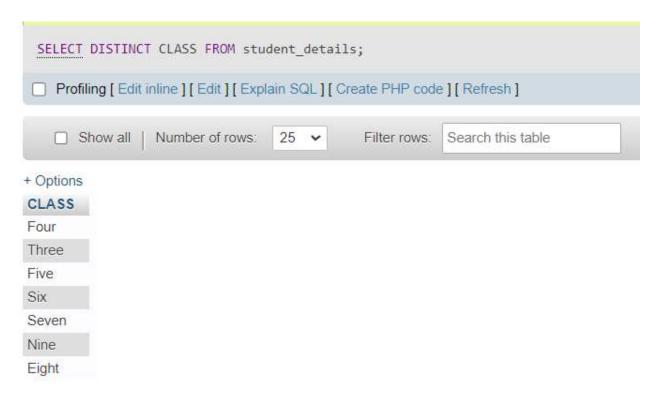
✓ 1 row inserted. (Query took 0.0174 seconds.)
INSERT INTO students\_exam (USN, NAME, DOB, ADDRESS) VALUES ('1SI23MBA05', 'FFF', '1999-01-01', 'B H ROAD');

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>

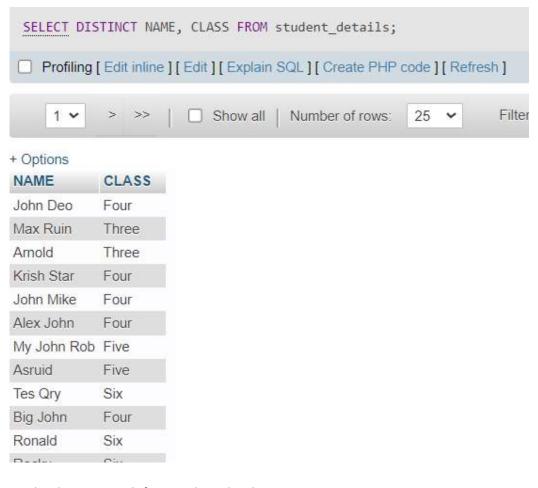
A. Display single column name from student\_details table



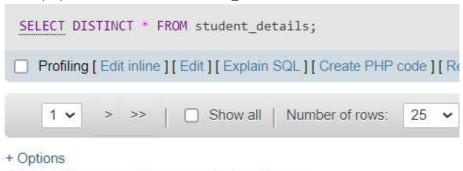
B. Display unique values for class from student\_details



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



D. Display distinct records from student\_details



name class mark gender 1 John Deo Four 75 female 2 Max Ruin Three 85 male 3 Arnold 55 male Three 4 Krish Star Four 60 female 5 John Mike 60 female Four 55 male 6 Alex John Four 7 My John Rob Five 78 male 8 Asruid Five 85 male 78 male 9 Tes Qry Six 55 female 10 Big John Four

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



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

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



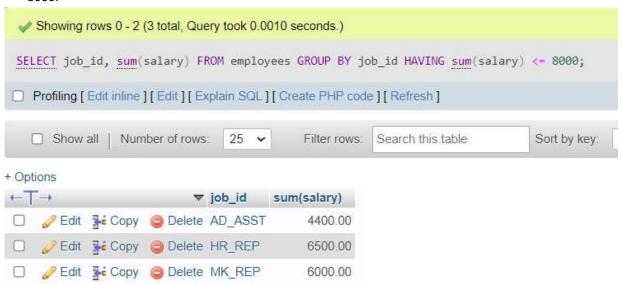
B. Write a query to get the total salaries payable to employees by their job\_id



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



D. Write a query to get the job ID and total salary of the employees where total salary is less than or equal to 8000.



E. Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only.

