



Bhartiya Vidya Bhavan's
Sardar Patel Institute of Technology
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous College Affiliated to University of Mumbai)

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SUBJECT	DBMS
EXPERIMENT NO :	EXPERIMENT 3
DATE OF PERFORMANCE	07-10-22
DATE OF SUBMISSION	14-10-22
AIM:	To study queries/commands related to SELECT and aggregate functions.
PROGRAM:	1) SELECTING ALL THE FIELDS OF STUDENT TABLE WITH ALL ROW. SELECT * FROM STUDENT; 2) SELECTING NAMES AND ID FROM STUENT TABLE WHOSE ADDRESS IS 'GUJRAT'. SELECT S_NAME, S_ID FROM STUDENT WHERE ADDRESS= "GUJRAT"; 3) SELECTING THE DATA FROM MULTIPLE TABLES. SELECT S_NAME, STUDENT.S_ID, COURSE_CODE FROM STUDENT, ENROLLMENT WHERE STUDENT.S_ID=ENROLLMENT.S_ID;



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| | <p>4)
MIN FUNCTION:
DISPLAYING THE COURSE WITH MINIMUM FEES.
SELECT MIN(FEE) FROM COURSES;</p> <p>5)
MAX FUNCTION:
DISPLAYING THE COURSE WITH MAXIMUM FEES.
SELECT MAX(FEE) FROM COURSES;</p> <p>6)
COUNT FUNCTION:
DISPLAYING TOTAL NUMBER OF SEATS OF ALL THE COURSES.
SELECT COUNT(TOTAL_SEATS) AS TOTAL_NO_OF_SEATS FROM COURSES;</p> <p>7)
AVG FUNCTION:
DISPLAYING THE AVERAGE FEES OF ALL COURSES.
SELECT AVG(FEE) FROM COURSES;</p> <p>8)
SUM FUNCTION:
DISPLAYING TOTAL NUMBER OF SEATS IN COACHING CLASSES.
SELECT SUM(TOTAL_SEATS) AS TotalNumOfSeats FROM COURSES;</p> <p>9)
GROUP BY:
GROUPING THE STUDENT TABLE ON THE BASIS OF FIELD NO.
SELECT COUNT(S_NAME), FIELD_NAME FROM STUDENT GROUP BY FIELD_NO;</p> <p>10)
HAVING CLAUSE:</p> |
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GROUPING THE COURSESE TABLE ON THE BASIS OF TOTAL SEATS HAVING AVERAGE FEE GREATER THAN 15000;
SELECT TOTAL_SEATS, AVG(Fee)
FROM COURSES
GROUP BY TOTAL_SEATS
HAVING AVG(Fee)>=150000;

RESULT:

1)

```
mysql> SELECT * FROM STUDENT;
```

S_NAME	S_ID	ADDRESS	CONTACT_NO	field_NO	Field_name
DEEP	2001	JAMMU	700606****	1	Engineering Student
DEEPAK	2002	LUDHIANA	990628****	1	Engineering Student
TARAK	2003	GUJRAT	98761****	1	Engineering Student
DHARA	2004	WESTBENGAL	700606****	1	Engineering Student
ANKITA	2005	AMRITSAR	785426****	2	Medical Student
VASUDHA	2006	RAIGARH	659823****	2	Medical Student
TOMPER	2007	MUMBAI	983467****	1	Engineering Student
VINEET	2008	KOLABA	981167****	1	Engineering Student
JUSTIN	2009	AMSTERDAM	663467****	1	Engineering Student

9 rows in set (0.00 sec)

2)

```
mysql> SELECT S_NAME, S_ID FROM STUDENT WHERE ADDRESS="GUJRAT";
```

S_NAME	S_ID
TARAK	2003

1 row in set (0.00 sec)



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3)

```
mysql> SELECT S_NAME,STUDENT.S_ID,COURSE_CODE FROM STUDENT,ENROLLMENT WHERE STUDENT.S_ID=ENROLLMENT.S_ID;
```

S_NAME	S_ID	COURSE_CODE
DEEP	2001	1011
DEEPAK	2002	1015
TARAK	2003	1013
DHARA	2004	1011
ANKITA	2005	1012
VASUDHA	2006	1014
TOMPER	2007	1013
VINEET	2008	1015
JUSTIN	2009	1011

```
9 rows in set (0.00 sec)
```

4)

```
mysql> SELECT MIN(FEE) FROM COURSES;
```

MIN(FEE)
100000

```
1 row in set (0.00 sec)
```

5)

```
mysql> SELECT MAX(FEE) FROM COURSES;
```

MAX(FEE)
180000

```
1 row in set (0.00 sec)
```



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6)

```
mysql> SELECT COUNT(TOTAL_SEATS) AS TOTAL_NO_OF_SEATS FROM COURSES;
+-----+
| TOTAL_NO_OF_SEATS |
+-----+
|           5       |
+-----+
1 row in set (0.00 sec)
```

7)

```
mysql> SELECT AVG(FEE) FROM COURSES;
+-----+
| AVG(FEE) |
+-----+
| 146000.0000 |
+-----+
1 row in set (0.00 sec)
```

8)

```
mysql> SELECT SUM(TOTAL_SEATS) AS TotalNumOfSeats FROM COURSES;
+-----+
| TotalNumOfSeats |
+-----+
|           380   |
+-----+
1 row in set (0.01 sec)
```

9)

```
mysql> SELECT COUNT(S_NAME), FIELD_NAME FROM STUDENT GROUP BY FIELD_NO;
+-----+-----+
| COUNT(S_NAME) | FIELD_NAME |
+-----+-----+
|           7   | Engineering Student |
|           2   | Medical Student    |
+-----+-----+
2 rows in set (0.00 sec)
```



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10)

```
mysql> SELECT TOTAL_SEATS, AVG(Fee) FROM COURSES GROUP BY TOTAL_SEATS HAVING AVG(Fee)>=150000;  
+-----+-----+  
| TOTAL_SEATS | AVG(Fee) |  
+-----+-----+  
|          60 | 165000.0000 |  
|          70 | 150000.0000 |  
+-----+-----+  
2 rows in set (0.00 sec)
```

CONCLUSION:

By performing the experiment, I understood the implementation of SELECT, GROUP BY with HAVING and Aggregate Functions.