

# Built-In Functions And Grouping Result

# Workbook

Answer	the	fol	lowing
			-~

1.	column.	function is used to find the maximum value in a					
2.	t	function is used to compare dates.					
3.		function is used to get the current time in MYSQL.					
4.		function converts a field to Uppercase.					
5.		function returns count of rows in a table.					
6.	t	function is used to calculate the arc sine of a value.					
7.	The function SIGN(-50) gives value as						
8.	The function ABS(	(-50) returns					
9.	The output of day ('2008-01-12') would be same as that of day ('12.01.2008'). (True / False)						
10.		utput of the following query? 445, -2), ROUND(12.345,2), ROUND(12.345,3) FROM					
11.		utput of the following query? Calent Sprint', -10) FROM DUAL;					
12.		utput of the following query?					



#### Exercises

• Write the expected output, or compiler errors if any, for each of the following programs.

#### Program 1

MYSQL> SELECT \* FROM TEAMSTATS;

NAME	POS	AB	HITS	WALKS	SINGLES	DOUBLES	TRIPLES	HR	SO
JONES	1B	145	45	34	31	8	1	5	10
DONKNOW	3B	175	65	23	50	10	1	4	15
WORLEY	LF	157	49	15	35	8	3	3	16
DAVID	OF	187	70	24	48	4	0	17	42
${\tt HAMHOCKER}$	3B	50	12	10	10	2	0	0	13
CASEY	DH	1	0	0	0	0	0	0	1

6 rows selected.

- Q1: What will be the output of the query given below?

  SELECT SUM(SINGLES) TOTAL\_SINGLES FROM TEAMSTATS;
- Q2: What will be the output of the query given below?

  SELECT SUM(SINGLES) TOTAL\_SINGLES, SUM(DOUBLES) TOTAL\_DOUBLES,

  SUM(TRIPLES) TOTAL\_TRIPLES, SUM(HR) TOTAL\_HR FROM TEAMSTATS;
- Q3: What will be the output of the query given below?

  SELECT SUM(HITS)/SUM(AB) TEAM\_AVERAGE FROM TEAMSTATS;
- Q4: What will be the output of the query given below? SELECT SUM(NAME) FROM TEAMSTATS;
- Q5: What will be the output of the query given below?

  SELECT COUNT(\*) FROM TEAMSTATS WHERE HITS/AB < .35;
- Q6: What will be the output of the query given below?

  SELECT COUNT(NAME) NUM\_BELOW\_350 FROM TEAMSTATS WHERE HITS/AB

  < .35;



#### Program 2

MYSQL> SELECT \* FROM TEAMSTATS;

NAME	POS	AB	HITS	WALKS	SINGLES	DOUBLES	TRIPLES	HR	SO
JONES	1B	145	45	34	31	8	1	5	10
DONKNOW	3B	175	65	23	50	10	1	4	15
WORLEY	LF	157	49	15	35	8	3	3	16
DAVID	OF	187	70	24	48	4	0	17	42
${\tt HAMHOCKER}$	3B	50	12	10	10	2	0	0	13
CASEY	DH	1	0	0	0	0	0	0	1

6 rows selected.

Q1: What will be the output of the query given below? SELECT AVG(S0) AVE\_STRIKE\_OUTS FROM TEAMSTATS;

Q2: What will be the output of the query given below?

SELECT AVG(HITS)/AVG(AB) TEAM\_AVERAGE FROM TEAMSTATS;

Q3: What will be the output of the query given below? SELECT MAX(HITS) FROM TEAMSTATS;

Q4: What will be the output of the query given below?

SELECT NAME FROM TEAMSTATS WHERE HITS = MAX(HITS);

Q5: What will be the output of the query given below? SELECT MIN(NAME) FROM TEAMSTATS;

Q6: What will be the output of the query given below? SELECT MIN(AB), MAX(AB) FROM TEAMSTATS;

#### Program 3

MYSQL> SELECT \* FROM PROJECT;

TASK	STARTDATE	ENDDATE
KICKOFF MTG	01-APR-95	01-APR-95
TECH SURVEY	02-APR-95	01-MAY-95
USER MTGS	15-MAY-95	30-MAY-95
DESIGN WIDGET	01-JUN-95	30-JUN-95
CODE WIDGET	01JUI95	02-SEP-95



TESTING 03-SEP-95 17-JAN-96

6 rows selected.

- Q1: What will be the output of the query given below?

  SELECT TASK, STARTDATE, ENDDATE ORIGINAL\_END, ADD\_MONTHS(ENDDATE,

  2) FROM PROJECT;
- Q2: What will be the output of the query given below? SELECT ENDDATE, LAST\_DAY(ENDDATE) FROM PROJECT;
- Q3: What will be the output of the query given below?

  SELECT DISTINCT LAST\_DAY('1-FEB-95') NON\_LEAP, LAST\_DAY('1-FEB-96')

  LEAP FROM PROJECT;
- Q4: What will be the output of the query given below?

  SELECT TASK, STARTDATE, ENDDATE, MONTHS\_BETWEEN(STARTDATE,
  ENDDATE) DURATION FROM PROJECT;
- Q5: What will be the output of the query given below?

  SELECT STARTDATE, NEXT\_DAY(STARTDATE, 'FRIDAY') FROM PROJECT;

## Program 4

MYSQL> DESC SALES;

TYPE	NULL
INT(11)	YES
DATE	YES
FLOAT	YES
	INT(11) DATE

- Q1: Write a query to find the sales amount for each store?
- **Q2:** Write a query to list all stores whose total sales amount is above 5000?
- **Q3:** Write a query to find the total number of stores in the SALES table?
- **Q4:** Write a query to find the total sales amount for STORE\_ID 25 and 45?



## Program 5

MYSQL> SELECT \* FROM EXAM\_RESULTS;

STUDENT_ID	FIRST_NAME	LAST_NAME	EXAM_ID	EXAM_SCORE
10	T ATTD A		4	
10	LAURA	LYNCH	1	90
10	LAURA	LYNCH	2	85
11	GRACE	BROWN	1	78
11	GRACE	BROWN	2	72
12	JAY	JACKSON	1	95
12	JAY	JACKSON	2	92
13	WILLIAM	BISHOP	1	70
13	WILLIAM	BISHOP	2	100
14	CHARLES	PRADA	2	85
	_			

9 rows selected.

Q1: What will be the output of the query given below?

SELECT COUNT(DISTINCT STUDENT\_ID) FROM EXAM\_RESULTS;

**Q2:** Write a query to find the average exam score for  $EXAM\_ID = 1$ ?

**Q3:** Write a query to retrieve students records whose last name starts with 'L'?

Q4: What will be the output of the query given below?

SELECT MAX(EXAM\_SCORE) FROM EXAM\_RESULTS WHERE EXAM\_ID =

1 AND FIRST\_NAME LIKE '%E%';

Q5: How many records does the following statement returns?

SELECT \* FROM EXAM\_RESULTS WHERE LAST\_NAME LIKE '%N%' AND

EXAM\_SCORE > 88;

Q6: How many records does the following statement returns?

MYSQL> SELECT \* FROM EXAM\_RESULTS WHERE STUDENT\_ID <= 12

AND EXAM\_SCORE > 85;