



# INDIAN SCHOOL AL WADI AL KABIR

<b>Class: 11<sup>th</sup> (IP)</b>	<b>Department: Computer Science</b>	<b>Date of submission: 10-12-2020</b>
<b>Worksheet No:10</b>	<b>Topic: MySQL – DML Commands &amp; Aggregate Functions</b>	<b>Note: Solve the worksheet during the Winter break for your Assessment 2 Exam preparation</b>

1. Pranay, who is an Indian, created a table named “**Friends**” to store his friend’s detail. Table “Friends” is shown below. Write output for (i) to (x).

SNo	Name	Age	City	Country	Email
1	Alice	34	Washington	USA	Alice_SK@gmail.com
2	Chales	32	Copenhagen	Denmark	Charles45@yahoo.com
3	Angel	24	Chicago	USA	Null
4	Jasmine	45	Sydney	Australia	Jasmine12@yahoo.com
5	Raj	25	New Delhi	India	Raj_mia@gmail.com
6	Jette	31	Frederiksberg	Denmark	Jette_Fberg362@gmail.com
7	Alexender	27	Melbourne	Australia	Alex_Paul213@hotmail.com
8	Shashank	36	Bengaluru	India	Null
9	Kotomi	28	Tokyo	Japan	Kotomi90@hotmail.com
10	Albin	33	Stockholm	Sweden	AblinSholm@gmail.com

- i. SELECT NAME, CITY FROM FRIENDS WHERE COUNTRY = “AUSTRALIA”;
- ii. SELECT COUNT(\*) FROM FRIENDS WHERE AGE<30;
- iii. SELECT AVG(AGE) FROM FRIENDS WHERE EMAIL IS NULL;
- iv. SELECT MAX(AGE) FROM FRIENDS WHERE SNO>5;
- v. SELECT MIN(AGE) FROM FRIENDS WHERE COUNTRY NOT IN (“USA”, “INDIA”);
- vi. SELECT COUNT(EMAIL) FROM FRIENDS WHERE AGE BETWEEN 20 AND 30;
- vii. SELECT MAX(NAME) FROM FRIENDS WHERE EMAIL LIKE “%gmail%”;
- viii. SELECT MIN(NAME) FROM FRIENDS WHERE COUNTRY = “DENMARK”;
- ix. SELECT NAME, CITY FROM FRIENDS ORDER BY AGE;
- x. SELECT NAME, COUNTRY FROM FRIENDS WHERE AGE>30 ORDER BY CITY DESC;

2. Consider the following **STUDENT** table and write the MySQL commands for Question (a) to (j)

SID	NAME	CONTACT	MAJOR	SCORE
320	VINI	25839020	MUSIC	87
321	SAMSON	34274238	FINANCE	78
322	JEORGE	98549400	SCULPTURE	92
323	SUNIL	79430845	BIOLOGY	64
324	PRIYA	69348092	PHYSICS	45
325	MALIK	NULL	FINANCE	52
326	HRIDAY	89403565	MUSIC	73
327	CRAIG	83020438	SCULPTURE	83
328	JEN	92977905	HISTORY	66
329	MARK	NULL	MUSIC	90
330	BABU	73920984	BIOLOGY	62

- Display the Student Name and Score whose major is 'Music'.
- Display the details of all the students whose ID is less than 325.
- Display the different Major in the table without duplication.
- Display the details of the students in the descending order of Name.
- Display the Name and Major of the students whose contact number is not available.
- Display the number of students in the major 'Music' or "Sculpture".
- Display the details of students who scored in the range 60 – 80 (Both values inclusive).
- Display the Total Score and Average Score from the above table.
- Display the Maximum score and Minimum Score for the students who have chosen the Major FINANCE and MUSIC.
- Display the No. of students who have the contact Number.

3. Consider the following EMPLOYEE table and answer the Queries (a) to (h) given below:

ProjCode	EmpNo	EmpName	DeptName	HourlyRate
PC010	S10001	A Smith	IT	22.00
PC010	S10030	L Jones	Pensions	18.00
PC045	S10010	B Jones	IT	21.75
PC045	S10001	A Smith	IT	18.00
PC045	S31002	T Gilbert	Database	25.50
PC064	S13210	W Richards	Salary	17.00
PC064	S31002	R Robert	Database	23.25
PC064	S10034	B James	HR	16.50

- Increase the Hourly Rate of all the employees by Rs. 5.00
- Decrease the Hourly Rate of IT employees by Rs. 1.75
- Increase the Hourly Rate of HR employees by 5%.
- Change the department of **L Jones** as **ADMIN**.
- Remove the details of all the **Database** employees.
- Remove the details of employees whose name consists of **Jones**.
- Remove the details of all the employees whose Hourly Rate is more than Rs. 20
- Remove the details of employees whose name ends with **T**.