

## Week – 7

### Hands on Lab Questions
















#### 1. Table: Students

Student_ID	Firstname	Lastname	Age	Gender	Grade
1	Rakesh	Shrestha	19	Male	A
2	Binita	Bhandari	21	Female	B
3	Bobby	Sherpa	20	Male	C
4	Sagar	Parajuli	22	Male	A
5	Prajina	KC	21	Female	B

Queries:

- a. Retrieve all data from the Students Table
















```
1 SELECT * FROM student
```

	studentid	firstname	lastname	age	Gender	Grade
<input type="checkbox"/>  Edit  Copy  Delete	1	Rakesh	Shrestha	19	Male	A
<input type="checkbox"/>  Edit  Copy  Delete	2	Binita	Bhandari	21	female	B
<input type="checkbox"/>  Edit  Copy  Delete	3	Bobby	Sherpa	20	Male	C
<input type="checkbox"/>  Edit  Copy  Delete	4	Sagar	Parajuli	22	Male	A
<input type="checkbox"/>  Edit  Copy  Delete	5	Prajina	KC	21	female	B

 ☐ Check all With selected:  Edit  Copy  Delete  Export












- b. Retrieve first name and last name of all students

```
1 SELECT firstname , lastname FROM student
```

				firstname	lastname
<input type="checkbox"/>				Rakesh	Shrestha
<input type="checkbox"/>				Binita	Bhandari
<input type="checkbox"/>				Bobby	Sherpa
<input type="checkbox"/>				Sagar	Parajuli
<input type="checkbox"/>				Prajina	KC

c. Retrieve only the students who have a grade A

```
1 SELECT * FROM student WHERE Grade = 'A';
```

				studentid	firstname	lastname	age	Gender	Grade
<input type="checkbox"/>				1	Rakesh	Shrestha	19	Male	A
<input type="checkbox"/>				4	Sagar	Parajuli	22	Male	A
	<input type="checkbox"/> Check all	With selected:					 Export		

d. Retrieve only the students who are older than 20.

```
1 SELECT * FROM student WHERE age > 20;
```

		studentid	firstname	lastname	age	Gender	Grade
<input type="checkbox"/>	Edit  Copy  Delete	2	Binita	Bhandari	21	female	B
<input type="checkbox"/>	Edit  Copy  Delete	4	Sagar	Parajuli	22	Male	A
<input type="checkbox"/>	Edit  Copy  Delete	5	Prajina	KC	21	female	B

☐ Check all

With selected:

Edit

Copy

Delete

Export

- e. Retrieve the count of male and female students

```
1 SELECT Gender , COUNT(*) FROM student GROUP by Gender;
```

Gender	COUNT(*)
female	2
Male	3

- f. Update the grade of a specific student (e.g. StudentID=3)

```
1 UPDATE student SET Grade = 'B' WHERE studentid = 3;
```

✓ 1 row affected. (Query took 0.0034 seconds.)

```
UPDATE student SET Grade = 'B' WHERE studentid = 3;
```

- g. Increment the age of all male students by 1

```
1 UPDATE student SET age = age + 1 WHERE Gender = 'Male';
```

✓ 3 rows affected. (Query took 0.0014 seconds.)

```
UPDATE student SET age = age + 1 WHERE Gender = 'Male';
```

- h. Update the grade of all female students who have a grade of 'B' to 'A'

```
1 UPDATE student SET Grade = 'A' WHERE Gender = 'Female' AND Grade = 'B';
```

✓ 2 rows affected. (Query took 0.0012 seconds.)

```
UPDATE student SET Grade = 'A' WHERE Gender = 'Female' AND Grade = 'B';
```

- i.