

Assessment 1: SQL

QUESTION 1:

1) Write an SQL query to print all Worker details from the Worker table order by FIRST_NAME Ascending and DEPARTMENT Descending.

```
SELECT *FROM worker ORDER BY first_name ASC, department DESC;
```

2) Write an SQL query to print details for Workers with the first names “Vipul” and “Satish” from the Worker table.

```
SELECT *FROM worker WHERE first_name IN ('Vipul', 'Satish');
```

3) Write an SQL query to print details of the Workers whose FIRST_NAME ends with ‘h’ and contains six alphabets.

```
SELECT* FROM worker WHERE first_name LIKE '_____h';
```

4) Write an SQL query to print details of the Workers whose SALARY lies between 1.

```
SELECT * FROM worker WHERE salary BETWEEN 75000 AND 100000;
```

5) Write an SQL query to fetch duplicate records having matching data in some fields of a table.

```
SELECT first_name, last_name, salary, department COUNT(*) as count FROM worker  
GROUP BY first_name, last_name, salary, department  
HAVING COUNT(*) > 1;
```

6) Write an SQL query to show the top 6 records of a table.

SELECT* FROM worker LIMIT 6;

7)Write an SQL query to fetch the departments that have less than five people in them.

SELECT department FROM worker GROUP BY department HAVING COUNT(*) < 5;

8)Write an SQL query to show all departments along with the number of people in there.

SELECT department, COUNT(*) as num_people FROM worker GROUP BY department;

9)Write an SQL query to print the name of employees having the highest salary in each department.

SELECT department, MAX(salary) AS max_salary, GROUP_CONCAT(CONCAT(first_name, ' ', last_name))
AS employees

FROM worker

GROUP BY department;

QUESTION 2:

1)To display all the records form STUDENT table. SELECT * FROM student ;

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AS employees  
FROM worker  
GROUP BY department;
```

QUESTION 2:

1) To display all the records from STUDENT table. `SELECT * FROM student ;`

localhost / 127.0.0.1 / modulesql

localhost/phpmyadmin/index.php?route=/table/sql&db=modulesql&table=student

Server: 127.0.0.1 » Database: modulesql » Table: student

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

stdID	stdNmae	Sex	Percentage	Class	Sec	Stream	DOB
1001	Surekha Joshi	Female	82	12	A	Science	1998-03-08
1002	Maahi Agrawal	Female	56	11	C	Commerce	2008-11-23
1003	Sanam Verma	Male	59	11	C	Commerce	2006-06-29
1004	Ronit Kumar	Male	63	11	C	Commerce	1997-11-05
1005	Dipesh Pulkit	Male	78	11	B	Science	2003-09-14
1006	Jahanvi Puri	Female	60	11	B	Commerce	2008-11-07
1007	Sanam Kumar	Male	23	12	F	Commerce	1998-03-08
1008	Sahil Saras	Male	56	11	C	Commerce	2008-11-07
1009	Akshara Agrawal	Female	72	12	B	Commerce	1996-10-01
1010	Stuti Mishra	Female	39	11	F	Science	2008-11-23
1011	Harsh Agrawal	Male	42	11	C	Science	1998-03-08
1012	Nikunj Agrawal	Male	49	12	C	Commerce	1998-06-28
1013	Akriti Saxena	Female	89	12	A	Science	2008-11-23
1014	Tani Rastogi	Female	82	12	A	Science	2008-11-23

Show all | Number of rows: 25 | Filter rows: Search this table

Console

2) To display any name and date of birth from the table STUDENT. SELECT StdName, DOB FROM student ;

localhost / 127.0.0.1 / modulesql

localhost/phpmyadmin/index.php?route=/table/sql&db=modulesql&table=student

Server: 127.0.0.1 » Database: modulesql » Table: student

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

stdNmae	DOB
Surekha Joshi	1998-03-08
Maahi Agrawal	2008-11-23
Sanam Verma	2006-06-29
Ronit Kumar	1997-11-05
Dipesh Pulkit	2003-09-14
Jahanvi Puri	2008-11-07
Sanam Kumar	1998-03-08
Sahil Saras	2008-11-07
Akshara Agrawal	1996-10-01
Stuti Mishra	2008-11-23
Harsh Agrawal	1998-03-08
Nikunj Agrawal	1998-06-28
Akriti Saxena	2008-11-23
Tani Rastogi	2008-11-23

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Console

3) To display all students record where percentage is greater of equal to 80 FROM student table. SELECT * FROM student WHERE percentage >= 80;

The screenshot shows the phpMyAdmin interface with the 'student' table selected. The SQL query entered is `SELECT * FROM student WHERE Percentage >= 80;`. The result shows 3 rows of student data.

stdID	stdNmae	Sex	Percentage	Class	Sec	Stream	DOB
1001	Surekha Joshi	Female	82	12	A	Science	1998-03-08
1013	Akriti Saxena	Female	89	12	A	Science	2008-11-23
1014	Tani Rastogi	Female	82	12	A	Science	2008-11-23

4) To display student name, stream and percentage where percentage of student is more than 80
SELECT StdName, Stream, Percentage WHERE percentage > 80;

The screenshot shows the phpMyAdmin interface with the 'student' table selected. The SQL query entered is `SELECT stdNmae, Stream, Percentage FROM student WHERE Percentage > 80;`. The result shows 3 rows of student data.

stdNmae	Stream	Percentage
Surekha Joshi	Science	82
Akriti Saxena	Science	89
Tani Rastogi	Science	82

5) To display all records of science students whose percentage is more than 75 form student table.
`SELECT * FROM student WHERE stream = 'Science' AND percentage > 75;`

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with 'modulesqlassignment' selected, containing a 'student' table. The main panel shows the 'Table: student' view with tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers. The SQL tab is active, displaying the query: `SELECT * FROM student WHERE Stream = 'Science' AND Percentage > 75;`. A message indicates that the current selection does not contain a unique column, so grid edit, checkbox, Edit, Copy, and Delete features are not available. The query results show 4 rows (0-3) with a total of 4 rows. The results are displayed in a table with the following data:

stdID	stdNmae	Sex	Percentage	Class	Sec	Stream	DOB
1001	Surekha Joshi	Female	82	12	A	Science	1998-03-08
1005	Dipesh Pulkit	Male	78	11	B	Science	2003-09-14
1013	Akriti Saxena	Female	89	12	A	Science	2008-11-23
1014	Tani Rastogi	Female	82	12	A	Science	2008-11-23

The interface also includes a 'Query results operations' section at the bottom.