**SQL QUERIES FOR PRACTICE**

**=================================================================**

1. **create table personal(**

**id INT PRIMARY KEY,**

**name varchar(50),**

**birthday date,**

**mobile varchar(15),**

**gender varchar(10)**

**);**

**=================================================================**

1. **create table product(**

**pid int PRIMARY KEY,**

**pname varchar(50),**

**pcompany varchar(50),**

**price int**

**);**

**=================================================================**

1. **insert into personal (id,name,birthday,mobile,gender)**

**VALUES (1,"Yash","2003-09-02","9876543210","Male");**

**INSERT MULTIPLE VALUES:**

**====================================**

**insert into personal (id, name, birthday, mobile, gender)**

**VALUES (3,"Anjali","2004-02-25","9898566607","female"),**

**(4,"Anjali","2004-02-25","9898566607","female")**

**=================================================================**

1. **select id, name from personal;**

**Using AS:**

**==========================================**

1. **select id as ID from personal**

**QUERY WITH WHERE CONDITION (<>, NOT, AND, OR, ! =, <>)**

**====================================**

1. [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where gender = "Male";
2. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where age > 18;
3. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where city != "Ahmedabad"; [ NOT EQUAL TO ]
4. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id, name, city from personal where city <> "Ahmedabad"; [ Same as NOT EQUAL TO ]
5. SELECT \* FROM personal WHERE age>=18 AND age<=28;
6. [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM personal WHERE name [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in)("Ram Kumar","John Abraham");
7. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where (city = "Ahmedabad" [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) city="Rajkot" ) [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) gender="Male";
8. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where [not](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) age>=25;
9. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where age [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) (18,28);
10. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where age [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) (18,28);
11. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where id **between** 1 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) 3;[BETWEEN]
12. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where id [not](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) between 1 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) 3;
13. LIKE : ENDS FROM **R** [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "%R";
14. LIKE: STARTS FROM R

[select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "R%";

1. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "ram%";
2. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "%av%"
3. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "a%" [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) name [LIKE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "j%";
4. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where BINARY name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "a%";
5. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where [BINARY](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/cast-functions.html%23operator_binary) name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "A%";
6. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where [BINARY](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/cast-functions.html%23operator_binary) name [like](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-comparison-functions.html%23operator_like) "%am%";
7. select \* from personal where name like "%\_am";
8. select \* from personal where name like "%\_\_m";
9. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [REGEXP](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/regexp.html%23operator_regexp) "^ra"; -> whose name starts with “ra”
10. Select \* from personal where name REGEXP “r$”;
11. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal where name [REGEXP](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/regexp.html%23operator_regexp) "Ram|kapoor|khan";

* In this, |-> IT IS PIE which is regexp where “ram”, “Kapoor”, “khan” is find it will print it.

1. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal order by city;
2. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from personal order by city desc;
3. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) DISTINCT city from personal;
4. select \* from personal

where city ="ahmedabad"

limit 2;

1. select \* from personal

limit 1, 3;

1. select max(age) from personal;
2. select min(age) from personal;
3. select min(age),name, city from personal
4. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [sum](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(age) from personal;
5. select avg(age) from personal
6. select count(name) from personal
7. select COUNT(DISTINCT city) from personal
8. select COUNT(DISTINCT city) as count from personal;
9. update personal set gender = "female" where city="rajkot";
10. commit;
11. rollback;
12. SELECT @@autocommit; = to check autocommit is on or off

if ans will 1 so it means auto commit is ON

If ans is 0 that means auto commit is off

1. To turn **ON** Auto-Commit:

SET auto commit = 1;

1. To turn **OFF** Auto-Commit:

SET auto commit = 0;

1. **TO delete Data** : ALWAYS USE WHERE CLAUSE IN DELETE QUERY

DELETE FROM personal WHERE id = 4

1. **Primary key :**

Insert table table\_name(

Id int primary key

)

**Or add primary key with alter query:**

alter table personal add primary key (id)

1. INSERT INTO CITY ("id", "Name") values(1, “Ahmedabad”);
2. insert into city (id, name) values (2, "Rajkot"), (3, "Baroda");
3. ALTER TABLE table\_name ADD PRIMARY KEY (column\_name);
4. update city set id=1, name="Ahmedabad" where id="0" and name="Name";
5. create table student1(

id int AUTO\_INCREMENT NOT NULL,

name varchar(50) NOT NULL,

age int NOT NULL,

city varchar(50) NOT NULL,

primary key(id),

FOREIGN KEY (id) REFERENCES city(id)

);

1. select personal.id, personal.name from personal INNER JOIN city

ON personal.id = city.id;

1. select \* from personal left join city

on personal.city = city.id

1. select \* from personal left join city

on personal.city = city.id

1. select personal.id, personal.name, personal.birthday, personal.gender, personal.age, personal.city, personal.Percentage

from personal

LEFT JOIN city

ON personal.city = city.name

1. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* from city inner join student on city.name = student. city inner join personal on city.name = personal.city;
2. select city, count(city)

from personal

group by city;

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**ARITHMATIC FUNCTION IN QUERY**

1. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) 5 + 6 as [sum](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum);
2. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) 6 - 5  as  sub;
3. select 10 % 5 as rem
4. select 10 / 5 as rem
5. select 10 \* 5 as rem
6. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) id, name, city, (percentage+5) from personal;
7. select pow(2,3) as Power
8. select round(sqrt(5)) as round ans is: 2
9. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) rand();
10. [select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) sign(25); ans: 1 (it will give 1 if value is positive or give -1 if value is negative and give 0 If value is zero