# constraint

1. create table supplier(suppid int PRIMARY key AUTO\_INCREMENT,

suppname varchar(50) not null,

status int DEFAULT 0,

city varchar(50));

1. alter table supplier modify city varchar(50) not null;
2. INSERT INTO supplier(suppname, city) values('Haldiram','Nagpur');
3. alter table shipment add CONSTRAINT FOREIGN key (itemno) REFERENCES item(itemno);
4. create TABLE shipment (id int PRIMARY KEY,

itemno int,

suppid int,

qty int,

FOREIGN KEY(itemno) REFERENCES item(itemno),

FOREIGN KEY(suppid) REFERENCES supplier(suppid)

);

create table employee(eid int PRIMARY key AUTO\_INCREMENT,

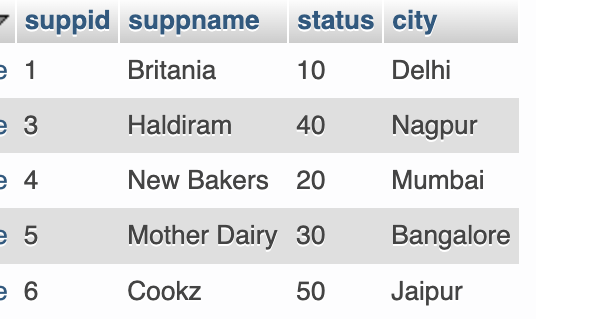
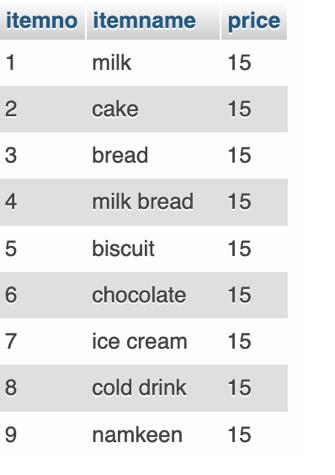
ename varchar(50) not null,

phone varchar(20) UNIQUE,

city varchar(50) not null,

country varchar(50) DEFAULT 'India',

email varchar(50) not null UNIQUE);



SELECT QUERIES

1. PROJECTION : fetch data for specific columns  
   select ename from employee;
2. after as keyword give the alias name. If alias name is more than 1 word then wrap it within quotes  
   select email as 'Email Id', ename as Name from employee;
3. To get those employees name whose phone is not null  
   select ename, phone from employee WHERE phone is NOT null;
4. To get those employees whose phone is null  
   select ename, phone from employee WHERE phone is null;
5. Get movie title for all the movies directed by director id 1
6. To not get duplicate values for column city  
   SELECT DISTINCT city from supplier
7. Mathematical operations with select  
   SELECT 1+2 as 'Addition of 1 and 2';
8. To get the current date  
   SELECT curdate();
9. To substitute for null value us ifnull  
   select ifnull(phone,'NOT PROVIDED') , ename , email from employee;

HR\_DATA provided by GL

1. # put text in query output

select employee\_id ,'gets',salary,'/-' from emp\_payment;

RELATIONAL OPERATORS

<, >, <=, >=, =, <>

1. Get employee data for salary >= 20000  
   SELECT first\_name, email, salary FROM `employees` WHERE salary>=20000;
2. SELECT first\_name, email, salary, department\_id FROM `employees` WHERE department\_id <>50;

LOGICAL OPERATOR

OR AND NOT

1. SELECT first\_name, email, salary FROM `employees` WHERE salary>=20000 && salary <= 30000;  
   SELECT first\_name, email, salary FROM `employees` WHERE salary>=20000 and salary <= 30000;
2. SELECT first\_name, email,job\_id, salary FROM `employees` WHERE job\_id = 'AD\_VP' and salary >20000;

BETWEEN

1. SELECT first\_name, email, salary FROM `employees` WHERE salary BETWEEN 20000 and 30000;

IN – condition based on a list

1. SELECT cust\_name, city FROM `customer` WHERE city In ('Mumbai','Delhi')
2. List firstname and last name of all the employess whose manager id is 1, 6 and 52

PATTERN MATCHING

1. % matches any substring
2. \_ matches any character
3. LIKE
4. Customer info whose name starts with r  
   SELECT \* FROM `customer` WHERE cust\_name LIKE 'r%';
5. Customer info whose email ends with techgatha.com  
   SELECT email, customer\_id FROM `customer` WHERE email LIKE '%techgatha.com';
6. Customer info whose email contains the word test  
   SELECT email, customer\_id FROM `customer` WHERE email LIKE '%test%';
7. Escape sequence this is \   
   SELECT customer\_id, email FROM `customer` WHERE email LIKE '%\\_%'
8. Display all employee details whose job id ends with ‘MGR’

**Regular expressions – pattern matching [ FYI ]**

<https://dev.mysql.com/doc/refman/8.0/en/regexp.html>

1. Character classes
   1. ^ - starts with
   2. $ - ends with
2. Quantifiers ->
   1. ? – 0 or one
   2. \*
   3. +
3. Customer info whose gst starts with any alphabet only  
   SELECT email, gst FROM `customer` WHERE gst REGEXP '^[a-zA-Z]'
4. Customer info whose name starts with R or P  
   SELECT cust\_name FROM `customer` WHERE cust\_name REGEXP '^[RP]'
5. Customer info whose gst starts with digits only  
   SELECT cust\_name, gst FROM `customer` WHERE gst REGEXP '^[0-9]'
6. Match the string that has exactly 0 or 1 occurrence of u

SELECT 'color' REGEXP 'colou?r'; -> 1

SELECT 'colour' REGEXP 'colou?r'; -> 1

SELECT 'colouur' REGEXP 'colou?r'; -> 0  
#SELECT 'color' REGEXP 'colou?r';

#SELECT 'colouur' REGEXP 'colou\*r';

#SELECT 'color' REGEXP 'colou\*r';

#SELECT 'colouur' REGEXP 'colou+r';

SELECT 'color' REGEXP 'colou+r';

ORDER BY CLAUSE

Sorting in asc or desc order

Default is ascending

SELECT cust\_name, city FROM `customer` order BY city

For descending order

SELECT cust\_name, city FROM `customer` order BY city desc