1. show databases ; ---> to show all databases
2. create database soap\_store ; ---> to create a database
3. drop tea\_shop ; --> top drop a database
4. use tea\_shop ; --> to use a database;
5. select database() ; --> to show current database
6. Data Types :- Numeric :- INT, SMALLINT, BIGINT, DECIMAL, NUMERIC, FLOAT, DOUBLE, BIT

String :- CHAR, VARCHAR, BLOB, TEXT, ENUM, BINARY

Date :- DATE, DATETIME, TIME, YEAR

1. CREATE TABLE cats (

name VARCHAR(50),

age INT

);

1. Show tables;
2. Show columns from cats;
3. Desc cats;
4. Drop table cats;
5. – This is a comment
6. insert into cats (name, age)

values("Jenkins",7);

1. select \* from cats;
2. insert into cats (name, age)

values ("MeatBall", 5), ("Turkey", 1),("Potato Face", 15);

1. create table cats2 (

-> name varchar(50) not null,

-> age int not null

-> );

17. insert into shops (name) values (‘mario\’s pizza’);

18. CREATE TABLE cats3 (

name VARCHAR(20) DEFAULT 'no name provided',

age INT DEFAULT 99

); ---> default value

19. create table unique\_cats (

-> cat\_id int not null primary key,

-> name varchar(100),

-> age int

-> );

20. create table unique\_cats3 (

-> cat\_id int auto\_increment,

-> name varchar(100),

-> age int,

-> primary key (cat\_id)

-> );

21. select name from cats;

22. select name, breed from cats;

23. select \* from cats where age=4;

24. select cat\_id as id , name from cats; --> aliases

25. update cats set age=14 where name='Misty'; --> update query

26. delete from cats where name='egg'; --> delete query

27. select concat('h','e','l'); --> concat

28. select concat (author\_fname, ' ', author\_lname) as 'full name' from books;

29. select concat\_ws ('-','hi','hello','lol','goo','booo');

30. select concat\_ws ('-', title, author\_fname, author\_lname) as 'Details' from books;

31. select substring('Hello World',1,4); --> substring

32. select substring(title, 1, 15) from books;

33. select concat(substr(title,1,10), '...') from books;

34. select concat( substr(author\_fname,1,1), '.', substr(author\_lname,1,1), '.') as Author\_Initials from books;

35. select replace('Hello World', 'Hell', '%$#@'); --> REPLACE

36. select replace (title, ' ', '-') from books;

37. select reverse ('Hello World'); --> REVERSE

38. select reverse(author\_fname) from books;

39. select reverse(author\_fname) from books;

40. select char\_length('Hello world'); --> character length

41. select length('Hello world'); --> length in bytes

42. select upper('krishna'); --> uppercase

43. select lower('KRISHNA'); --> lowercase

44. select insert ('Hello Bobby',6,0,' There'); --> INSERT

45. select insert('Hello Bobby',6,4,'There'); --> INSERT

46. select left('omghahalol!',3);

47. select right('omghahalol!',3);

48. select left(author\_lname,1) from books;

49. select repeat(‘ha’,4); --> REPEAT

50. select trim(leading '.' from '........san antanio..');

51. select trim(trailing '.' from '........san antanio.........');

52. select reverse(upper('Why does my cat look at me with such hatred?'));

53. select replace(concat('I',' ','like',' ','cats'),' ','-');

54. select replace (title,’ ‘, ‘->’) as title from books;

55. select author\_lname as forwards, reverse(author\_lname) as backwards from books;

56. select upper(concat(author\_fname, ' ', author\_lname)) from books;

57. select concat(title, ' was released in ', released\_year) as blurb from books;

58. select title, char\_length(title) as char\_count from books;

59. select

concat(substr(title,1,10), '...') as short\_title,

concat(author\_lname, ',', author\_fname) as author,

concat(stock\_quantity, ' in stock') as quantity

from books;

60. select distinct author\_lname from books; --> DISTINCT

61. select distinct concat(author\_fname,' ',author\_lname) from books;

62. select book\_id, author\_fname, author\_lname from books order by author\_lname;

63. select book\_id, author\_fname, author\_lname from books order by author\_fname desc;

64. select title, author\_fname, author\_lname from books order by 2;

65. select title, author\_fname, author\_lname from books order by 2 desc;

66. select author\_lname, released\_year, title from books order by author\_lname, released\_year;

67. select author\_lname, released\_year, title from books order by author\_lname, released\_year desc;

68. select concat(author\_fname, ' ', author\_lname) as author from books order by author;

69. select book\_id, title, released\_year from books limit 5; --> LIMIT

70. select book\_id, title, released\_year from books order by released\_year limit 5;

71. select book\_id, title, released\_year from books order by released\_year desc limit 10;

72. select book\_id, title, released\_year from books order by released\_year limit 2,5;

73. select title from books limit 50;

74. select title, author\_fname, author\_lname from books where author\_fname like '%da%'; --> LIKE

75. select \* from books where author\_fname like '\_\_\_\_';

76. select \* from books where author\_fname like '\_a\_';

77. select title from books where title like '%\%%'; --> ESCAPE

78. select title from books where title like '%\\_%';

79. select count(\*) from books; --> COUNT

80. select count(author\_fname) from books;

81. select count(distinct author\_fname) from books;

82. select author\_lname from books group by author\_lname; --> GROUP BY

83. select author\_lname, count(\*) from books group by author\_lname;

84. select min(released\_year) from books; --> MIN

85. select max(pages) from books; --> MAX

86. select min(author\_lname) from books;

87. select min(author\_lname), max(author\_lname) from books;

88. select \* from books where pages=(select max(pages) from books); --> SUBQUERIES

89. select title, released\_year from books where released\_year = (select min(released\_year) from books);

90. select author\_lname, count(\*) from books group by author\_lname, author\_fname; --> GORUP BY MULTIPLE COLUMN

91. select concat ( author\_fname,' ', author\_lname) as author, count(\*) from books group by author\_lname, author\_fname;

92. select author\_lname, min(released\_year) from books group by author\_lname; --> GROUP BY

93. select author\_lname, count(\*) as books\_written, max(released\_year) as latest\_release, min(released\_year) as earliest\_release from books group by author\_lname;

94. select sum(pages) from books; --> SUM

95. select author\_lname, sum(pages) from books group by author\_lname;

96. select author\_lname, count(\*), sum(released\_year) from books group by author\_lname;

97. select avg(released\_year) from books; --> AVG

98. select avg(pages) from books;

99. select released\_year, avg(stock\_quantity) from books group by released\_year;

100. select count(\*) from books; --> COUNT

101. select released\_year, count(\*) from books group by released\_year; --> GROUP

102. select sum(stock\_quantity) from books where stock\_quantity>0; --> SUM

103. select author\_fname, author\_lname, avg(released\_year) from books group by author\_fname, author\_lname; --> GROUP

104. select concat(author\_fname, ' ', author\_lname) as Full\_Name from books where pages=(select max(pages) from books); --> SUBQUERIES

105. select released\_year as Year, count(released\_year) as Books, avg(pages) as Avg\_Pages from books group by released\_year order by 1; --> GROUP BY

106 select char\_length(abbr) from states; --> CHAR\_LENGTH

107. create table people (name varchar(100), birthdate date, birthtime time, birthdt datetime); --> DATE, TIME

108. insert into people (name, birthdate, birthtime, birthdt) values ('Elton', '2000-12-25', '11:00:00','2000-12-25 11:00:00');

109. select curtime(); --> TIME

110. select curdate(); --> DATE

111. select now(); --> DATE TIME

112. insert into people (name, birthdate, birthtime, birthdt) values ('Juan', curdate(), curtime(), now());

113. select birthdate, day(birthdate) from people; --> DAY

114. select birthdate, day(birthdate), dayofweek(birthdate) from people;

115. select birthdate, day(birthdate), dayofweek(birthdate), dayofyear(birthdate), monthname(birthdate) from people;

116. select birthdate, date\_format(birthdate, '%a %b') from people;

117. select datediff (curdate(), birthdate) from people;

118. select date\_add(curdate(), interval 1 year);

119. select date\_add(curdate(), interval 1 month);

120. select date\_sub(curdate(), interval 1 month);

121. select now() - interval 18 year;

122. select name, birthdate, year(birthdate+interval 21 year) from people;

123. create table captions ( text varchar(150), created\_at timestamp default current\_timestamp);

124. create table captions2 ( text varchar(150), created\_at timestamp default current\_timestamp, updated\_at timestamp on update current\_timestamp);

125. select date\_format(now(), '%m/%d/%Y');

126. select date\_format (now(), '%M %D at %k:%i');

127. select \* from books where released\_year!=2017; --> NOT EQUAL

128. select title from books where title not like '% %'; --> NOT LIKE

129. select title, author\_fname, author\_lname from books where author\_fname not like 'da%';

130. select title from books where released\_year>2005; --> GREATER THAN

131. select title, pages, released\_year from books where pages > 500;

132. select title, released\_year from books where released\_year<2000 order by released\_year; --> LESS THAN

133. select title, released\_year from books where released\_year<=2010; --> LESS THAN OR EQUAL TO

134. select title, author\_lname from books where author\_lname='eggers' and released\_year>2010; --> AND

135. select title, author\_lname from books where author\_lname='eggers' and released\_year>2010 and title like '%novel%'; --> AND

136. select title from books where char\_length(title)>30 and pages > 500;

137. select title, author\_lname from books where author\_lname='eggers' or released\_year>2010; --> OR

138. select title, pages from books where pages<200 or title like '%stories%'; --> OR  
139. select title, released\_year from books where released\_year between 2004 and 2015; --> BETWEEN

140. select title, pages from books where pages between 200 and 300;

141. select \* from people where birthdate < '2005-01-01'; --> DATES COMPARISION

142. select \* from people where year(birthdate)<2005;

143. select \* from people where birthtime>'09:00:00'; --> COMPARING TIME

144. select \* from people where hour(birthtime)>'09:00:00';

145. select cast('09:00:00' as time) ; --> CAST

146. select \* from people where birthtime between '12:00:00' and '16:00:00';

147. select \* from people where birthtime between cast('12:00:00' as time) and cast('16:00:00' as time);

148. select \* from people where hour(birthtime) between 12 and 16;

149. select title, author\_lname from books where author\_lname in ('carver', 'lahiri', 'smith'); --> IN OPERATOR

150. select title, author\_lname from books where author\_lname not in ('carver', 'lahiri', 'smith'); --> NOT IN

151. select title, released\_year from books where released\_year >= 2000 and released\_year not in (2000,2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016);

152. select title, released\_year from books where released\_year >= 2000 and released\_year % 2 = 1; --> MODULO

153. select title, released\_year, case when released\_year>=2000 then 'modern lit' else '20th century lit' end as genre from books; --> CASE

154. select title, stock\_quantity, case when stock\_quantity between 0 and 40 then '\*' when stock\_quantity between 41 and 70 then '\*\*' when stock\_quantity between 71 and 100 then '\*\*\*' when stock\_quantity between 101 and 140 then '\*\*\*\*' else '\*\*\*\*\*' end as Stock from books;

155. select \* from books where author\_lname is null; --> IS NULL

156. select title from books where substr(author\_lname,1,1) in ('c','s');

157. select title, author\_lname,case when title like '%stories%' then 'Short Stories'when title='Just Kids' then 'Memoir' when title='A Heartbreaking Wor of Staggering Genius' then 'Memoir'else 'Novel'end as Type from books;

158. select author\_fname, author\_lname,case when count(\*) = 1 then '1 book' else concat(count(\*), ' books')end as Count from books where author\_lname is not null group by author\_fname, author\_lname;

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