

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

org

org1

studentmanagement

Tables

students

Columns

STUDENT_ID

NAME

GENDER

AGE

GRADE

MATHSCORE

SCIENCESCORE

ENGLISHSCORE

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Administration Schemas

Information

Schema: studentmanagement

Object Info Session

Query 1 SQL File 3

Limit to 1000 rows

```
1 -- CREATE DATABASE
2 CREATE DATABASE STUDENTMANAGEMENT;
3 USE STUDENTMANAGEMENT;
4 -- CREATE TABLE
5 CREATE TABLE STUDENTS (
6     STUDENT_ID INT AUTO_INCREMENT PRIMARY KEY,
7     NAME VARCHAR(50),
8     GENDER VARCHAR(1),
9     AGE INT,
10    GRADE VARCHAR(10),
11    MATHSCORE INT,
12    SCIENCESCORE INT,
13    ENGLISHSCORE INT
14 );
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	09:25:24	CREATE DATABASE STUDENTMANAGEMENT	1 row(s) affected	0.047 sec
2	09:25:52	USE STUDENTMANAGEMENT	0 row(s) affected	0.047 sec
3	09:30:59	CREATE TABLE STUDENTS (STUDENT_ID INT AUTO_INCREMENT, NAME VARCHAR(50), GENDER VARCHAR(1), AGE INT, GRADE VARCHAR(10), MATHSCORE INT, SCIENCESCORE INT, ENGLISHSCORE INT)	Error Code: 1075 Incorrect table definition; there can be only one auto column and it must be defined as a key	0.047 sec
4	09:31:56	CREATE TABLE STUDENTS (STUDENT_ID INT AUTO_INCREMENT PRIMARY KEY, NAME VARCHAR(50), GENDER VARCHAR(1), AGE INT, GRADE VARCHAR(10), MATHSCORE INT, SCIENCESCORE INT, ENGLISHSCORE INT)	0 row(s) affected	0.125 sec

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Information

No object selected

Object Info Session

Query 1 SQL File 4

Limit to 1000 rows

```
23 ('BOB','M',17,'B',75,88,78),
24 ('CHARLIE','M',16,'A',95,85,92),
25 ('DIANA','F',17,'C',68,65,78),
26 ('Ethan','M',15,'B',78,88,75),
27 ('Fiona','F',16,'A',98,92,95),
28 ('George','M',17,'C',58,68,65),
29 ('Hannah','F',15,'B',72,75,78),
30 ('Ian','M',16,'A',88,85,89),
31 ('Jane','F',17,'A',94,96,97));
32
33 -- QUERY 1
34 SELECT * FROM STUDENTS;
```

Result Grid

STUDENT_ID	NAME	GENDER	AGE	GRADE	MATHSCORE	SCIENCESCORE	ENGLISHSCORE
1	ALICE	F	16	A	85	90	88
2	BOB	M	17	B	75	80	70
3	CHARLIE	M	16	A	95	85	92
4	DIANA	F	17	C	60	65	70
5	Ethan	M	15	B	78	80	75
6	Fiona	F	16	A	90	92	95
7	George	M	17	C	58	60	65
8	Hannah	F	15	B	72	75	78
9	Ian	M	16	A	88	85	89
10	Jane	F	17	A	94	96	97

STUDENTS 2

Output

Action Output

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Query 1 SQL File 4*

Limit to 1000 rows

```

30 ('Ian', 'M', 16, 'A', 88, 85, 89);
31 ('Jane', 'F', 17, 'A', 94, 96, 97);
32
33 -- QUERY 1
34 SELECT * FROM STUDENTS;
35
36 -- QUERY 2
37 SELECT
38     AVG(MATHSCORE) AS AVGMATHSCORE,
39     AVG(SCIENCESCORE) AS AVGSCIENCESCORE,
40     AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
41 FROM STUDENTS;
42

```

Result Grid

AVGMATHSCORE	AVGSCIENCESCORE	AVGENGLISHSCORE
79.5000	80.8000	81.9000

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Query 1 SQL File 4*

Limit to 1000 rows

```

37 SELECT
38     AVG(MATHSCORE) AS AVGMATHSCORE,
39     AVG(SCIENCESCORE) AS AVGSCIENCESCORE,
40     AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
41 FROM STUDENTS;
42
43 -- QUERY 3(Find the student(s) with the highest total score across all subjects)
44 SELECT
45     NAME,
46     (MATHSCORE + SCIENCESCORE + ENGLISHSCORE) AS TOTALSCORE
47 FROM STUDENTS ORDER BY TOTALSCORE DESC
48 LIMIT 1;

```

Result Grid

NAME	TOTALSCORE
Jane	287

Result 4

Output

Action Output

#	Time	Action	Message
55	10:41:57	CREATE TABLE STUDENTS (STUDENT_ID INT AUTO_INCREMENT PRIMARY KEY, NAME VA...	0 row(s) affected
56	10:42:16	INSERT INTO STUDENTS(NAME,GENDER,AGE,GRADE,MATHSCORE,SCIENCESCORE,ENGLISHSC...	10 row(s) affected Records: 10 Duplicates: 0 Warnings:
57	10:42:32	SELECT * FROM STUDENTS LIMIT 0, 1000	10 row(s) returned
58	10:47:57	SELECT AVG(MATHSCORE) AS AVGMATHSCORE, AVG(SCIENCESCORE) AS AVGSCIENCESCORE...	1 row(s) returned
59	10:58:09	Name, (MathScore + ScienceScore + EnglishScore) AS TotalScore FROM Students ORDER BY TotalSc...	Error Code: 1064. You have an error in your SQL syntax;
60	11:02:05	SELECT NAME, (MATHSCORE + SCIENCESCORE + ENGLISHSCORE) AS TOTALSCORE FROM S...	1 row(s) returned

Object Info Session

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Navigator: Filter objects

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Query 1 SQL File 4* x

Limit to 1000 rows

```

44 SELECT
45     NAME,
46     (MATHSCORE + SCIENCESCORE + ENGLISHSCORE ) AS TOTALSCORE
47 FROM STUDENTS ORDER BY TOTALSCORE DESC
48 LIMIT 1;
49
50 -- QUERY 4 (Count the number of students in each grade)
51 SELECT
52     GRADE,
53     COUNT(*) AS STUDENTCOUNT
54 FROM STUDENTS GROUP BY GRADE;
55

```

Result Grid

GRADE	STUDENTCOUNT
A	5
B	3
C	2

Administration Schemas Result 5 x

MySQL Workbench

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Query 1 SQL File 4* x

Limit to 1000 rows

```

54 FROM STUDENTS GROUP BY GRADE;
55
56 -- QUERY 5 (Find the average score for male and female students)
57 SELECT
58     GENDER,
59     AVG(MATHSCORE) AS AVGMATHSCORE,
60     AVG(SCIENCESCORE) AS AVGSCIENCESCORE,
61     AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
62 FROM STUDENTS GROUP BY GENDER;
63
64
65

```

Result Grid

GENDER	AVGMATHSCORE	AVGSCIENCESCORE	AVGENGLISHSCORE
F	80.2000	83.6000	85.6000
M	78.8000	78.0000	78.2000

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Query 1 SQL File 4" x

Limit to 1000 rows

```

61     AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
62     FROM STUDENTS GROUP BY GENDER;
63
64     -- QUERY 6 ( Identify students whose Math score is above 80)
65     SELECT
66     NAME,
67     MATHSCORE
68     FROM STUDENTS WHERE MATHSCORE > 80;
69
70

```

Result Grid

NAME	MATHSCORE
ALICE	85
CHARLIE	95
Fiona	90
Ian	88
Jane	94

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Query 1 SQL File 4" x

Limit to 1000 rows

```

51     SELECT
52     GRADE,
53     COUNT(*) AS STUDENTCOUNT
54     FROM STUDENTS GROUP BY GRADE;
55
56     -- QUERY 5 (Find the average score for male and female students)
57     SELECT
58     GENDER,
59     AVG(MATHSCORE) AS AVGMAATHSCORE,
60     AVG(SCIENCESCORE) AS AVGSCIENCESCORE,
61     AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
62     FROM STUDENTS GROUP BY GENDER;
63
64     -- QUERY 6 (Identify students whose Math score is above 80)
65     SELECT
66     NAME,
67     MATHSCORE
68     FROM STUDENTS WHERE MATHSCORE > 80;
69
70     -- QUERY 7 (Update the grade of a student with a specific StudentID)
71     UPDATE STUDENTS
72     SET GRADE = 'A+' WHERE STUDENT_ID = 3;
73

```

Administration Schemas

Information

No object selected

Output

Action Output

#	Time	Action	Message
81	11:23:00	INSERT INTO STUDENTS(NAME,GENDER,AGE,GRADE,MATHSCORE,SCIENCESCORE,ENGLISHSC...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
82	11:23:12	SELECT NAME, MATHSCORE FROM STUDENTS WHERE MATHSCORE > 80 LIMIT 0, 1000	5 row(s) returned
83	11:23:29	UPDATE STUDENTS SET GRADE = 'A+' WHERE STUDENT_ID = 3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Object Info Session

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Query 1 SQL File 4*

```
61 AVG(ENGLISHSCORE) AS AVGENGLISHSCORE
62 FROM STUDENTS GROUP BY GENDER;
63
64 -- QUERY 6 (Identify students whose Math score is above 80)
65 • SELECT
66     NAME,
67     MATHSCORE
68 FROM STUDENTS WHERE MATHSCORE > 80;
69
70 -- QUERY 7 (Update the grade of a student with a specific StudentID)
71 • UPDATE STUDENTS
72 SET GRADE = 'A+' WHERE STUDENT_ID = 3;
73
74 -- QUERY 8 (Verify the update)
75 • SELECT * FROM STUDENTS WHERE STUDENT_ID = 3;
```

Result Grid

STUDENT_ID	NAME	GENDER	AGE	GRADE	MATHSCORE	SCIENCESCORE	ENGLISHSCORE
3	CHARLIE	M	16	A+	95	85	92
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Administration Schemas

Information

No object selected

STUDENTS 12 x

Output

Action Output

#	Time	Action	Message
82	11:23:12	SELECT NAME, MATHSCORE FROM STUDENTS WHERE MATHSCORE > 80 LIMIT 0, 1000	5 row(s) returned
83	11:23:29	UPDATE STUDENTS SET GRADE = 'A+' WHERE STUDENT_ID = 3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
84	11:24:26	SELECT * FROM STUDENTS WHERE STUDENT_ID = 3 LIMIT 0, 1000	1 row(s) returned

Object Info Session