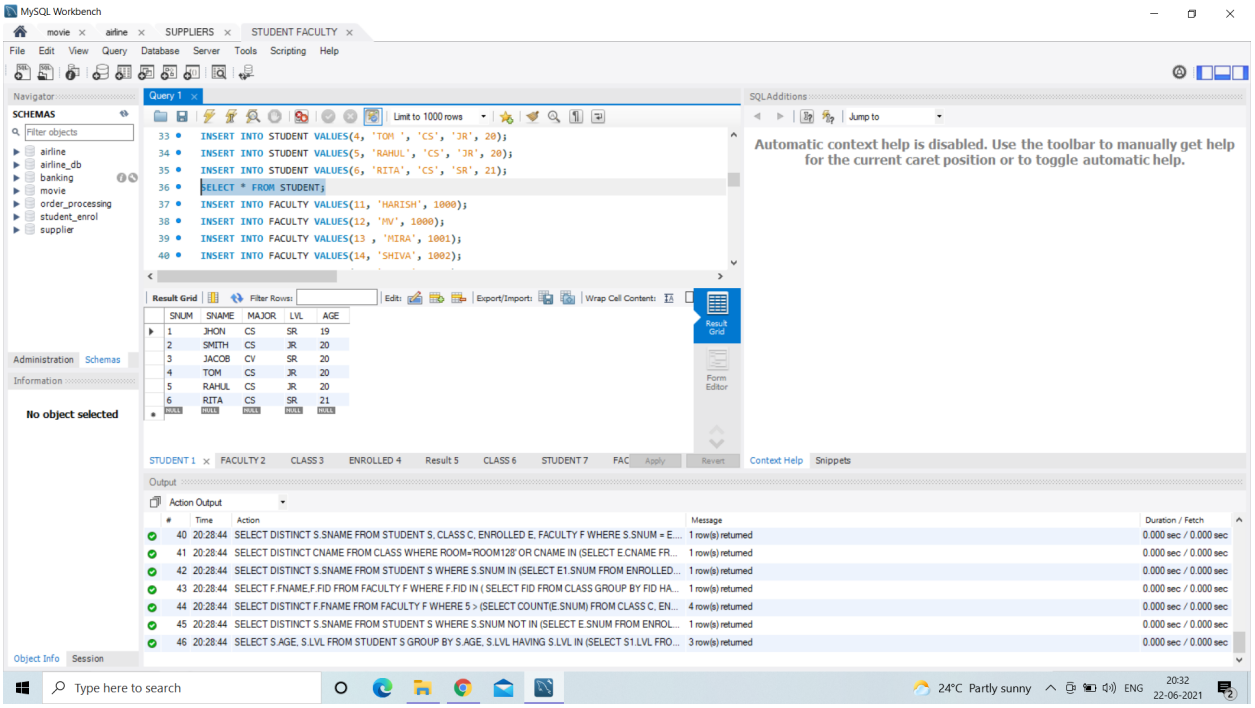
LAB-8
OUTPUT

```
CREATE DATABASE STUDENT_FACULTY;

USE STUDENT_FACULTY;

CREATE TABLE STUDENT(

SNUM INT,

SNAME VARCHAR(10),

MAJOR VARCHAR(2),

LVL VARCHAR(2),

AGE INT, PRIMARY KEY(SNUM));


CREATE TABLE FACULTY(

FID INT,FNAME VARCHAR(20),

DEPTID INT,

PRIMARY KEY(FID));


CREATE TABLE CLASS(

CNAME VARCHAR(20),

METTS_AT TIMESTAMP,

ROOM VARCHAR(10),

FID INT,

PRIMARY KEY(CNAME),

FOREIGN KEY(FID) REFERENCES FACULTY(FID));


CREATE TABLE ENROLLED(

SNUM INT,

CNAME VARCHAR(20),

PRIMARY KEY(SNUM,CNAME),

FOREIGN KEY(SNUM) REFERENCES STUDENT(SNUM),
```

```
FOREIGN KEY(CNAME) REFERENCES CLASS(CNAME));


INSERT INTO STUDENT VALUES(1, 'JHON', 'CS', 'SR', 19);
INSERT INTO STUDENT VALUES(2, 'SMITH', 'CS', 'JR', 20);
INSERT INTO STUDENT VALUES(3 , 'JACOB', 'CV', 'SR', 20);
INSERT INTO STUDENT VALUES(4, 'TOM ', 'CS', 'JR', 20);
INSERT INTO STUDENT VALUES(5, 'RAHUL', 'CS', 'JR', 20);
INSERT INTO STUDENT VALUES(6, 'RITA', 'CS', 'SR', 21);
SELECT * FROM STUDENT;
INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
INSERT INTO FACULTY VALUES(12, 'MV', 1000);
INSERT INTO FACULTY VALUES(13 , 'MIRA', 1001);
INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
INSERT INTO FACULTY VALUES(15, 'NUPUR', 1000);
SELECT * FROM FACULTY;
INSERT INTO CLASS VALUES('CLASS1', '12/11/15 10:15:16', 'R1', 14);
INSERT INTO CLASS VALUES('CLASS10', '12/11/15 10:15:16', 'R128', 14);
INSERT INTO CLASS VALUES('CLASS2', '12/11/15 10:15:20', 'R2', 12);
INSERT INTO CLASS VALUES('CLASS3', '12/11/15 10:15:25', 'R3', 11);
INSERT INTO CLASS VALUES('CLASS4', '12/11/15 20:15:20', 'R4', 14);
INSERT INTO CLASS VALUES('CLASS5', '12/11/15 20:15:20', 'R3', 15);
INSERT INTO CLASS VALUES('CLASS6', '12/11/15 13:20:20', 'R2', 14);
INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
SELECT * FROM CLASS;
INSERT INTO ENROLLED VALUES(1, 'CLASS1');
INSERT INTO ENROLLED VALUES(2, 'CLASS1');
INSERT INTO ENROLLED VALUES(3, 'CLASS3');
INSERT INTO ENROLLED VALUES(4, 'CLASS3');
INSERT INTO ENROLLED VALUES(5, 'CLASS4');
INSERT INTO ENROLLED VALUES(1, 'CLASS5');
INSERT INTO ENROLLED VALUES(2, 'CLASS5');
```

```
INSERT INTO ENROLLED VALUES(3, 'CLASS5');

INSERT INTO ENROLLED VALUES(4, 'CLASS5');

INSERT INTO ENROLLED VALUES(5, 'CLASS5');

SELECT * FROM ENROLLED;

-- QUERY 1

SELECT DISTINCT S.SNAME

FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F

WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND

F.FNAME = 'HARISH' AND S.LVL = 'JR';

-- QUERY 2

SELECT DISTINCT CNAME

FROM CLASS

WHERE ROOM='ROOM128'

OR

CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING
COUNT(*)>=5);
-- QUERY 3

SELECT DISTINCT S.SNAME

FROM STUDENT S

WHERE S.SNUM IN (SELECT E1.SNUM

FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2

WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME

AND E1.CNAME = C1.CNAME

AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);

-- QUERY 4

SELECT F.FNAME,F.FID

FROM FACULTY F

WHERE F.FID IN ( SELECT FID FROM CLASS

GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS)
);
-- QUERY 5

SELECT DISTINCT F.FNAME

FROM FACULTY F
```

```
WHERE 5 > (SELECT COUNT(E.SNUM)
FROM CLASS C, ENROLLED E
WHERE C.CNAME = E.CNAME
AND C.FID = F.FID);
-- QUERY 6
SELECT DISTINCT S.SNAME
FROM STUDENT S
WHERE S.SNUM NOT IN (SELECT E.SNUM
FROM ENROLLED E );
-- QUERY 7
SELECT S.AGE, S.LVL
FROM STUDENT S
GROUP BY S.AGE, S.LVL
HAVING S.LVL IN (SELECT S1.LVL
FROM STUDENT S1
WHERE S1.AGE=S.AGE
GROUP BY S1.AGE, S1.LVL
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
FROM STUDENT S2
WHERE S1.AGE=S2.AGE
GROUP BY S2.LVL, S2.AGE))
ORDER BY S.AGE;
```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STUDENT FACULTY
File Edit View Query Database Server Tools Scripting Help
Navigator
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airline
airline_db
banking
movie
order_processing
student_enrol
supplier
Query 1
Limit to 1000 rows
33 INSERT INTO STUDENT VALUES(4, 'TOM ', 'CS', 'JR', 20);
34 INSERT INTO STUDENT VALUES(5, 'RAHUL', 'CS', 'JR', 20);
35 INSERT INTO STUDENT VALUES(6, 'RITA', 'CS', 'SR', 21);
36 SELECT * FROM STUDENT;
37 INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
38 INSERT INTO FACULTY VALUES(12, 'MV', 1000);
39 INSERT INTO FACULTY VALUES(13 , 'MIRA', 1001);
40 INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
Result Grid
SNUM SNAME MAJOR LVL AGE
1 JHON CS SR 19
2 SMITH CS JR 20
3 JACOB CV SR 20
4 TOM CS JR 20
5 RAHUL CS JR 20
6 RITA CS SR 21
SQLAdditions
Jump to
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
Administration Schemas
Information
No object selected
Object Info Session
Output
Action Output
Time Action Message Duration / Fetch
40 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F WHERE S.SNUM = E.... 1 row(s) returned 0.000 sec / 0.000 sec
41 20:28:44 SELECT DISTINCT CNAME FROM CLASS WHERE ROOM='ROOM128' OR CNAME IN (SELECT E.CNAME FR... 1 row(s) returned 0.000 sec / 0.000 sec
42 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM IN (SELECT E1.SNUM FROM ENROLLED... 1 row(s) returned 0.000 sec / 0.000 sec
43 20:28:44 SELECT F.FNAME,F.FID FROM FACULTY F WHERE F.FID IN (SELECT FID FROM CLASS GROUP BY FID HA... 1 row(s) returned 0.000 sec / 0.000 sec
44 20:28:44 SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, EN... 4 row(s) returned 0.000 sec / 0.000 sec
45 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROL... 1 row(s) returned 0.000 sec / 0.000 sec
46 20:28:44 SELECT S.AGE, S.LVL FROM STUDENT S GROUP BY S.AGE, S.LVL HAVING S.LVL IN (SELECT S1.LVL FRO... 3 row(s) returned 0.000 sec / 0.000 sec
Type here to search
24°C Partly sunny
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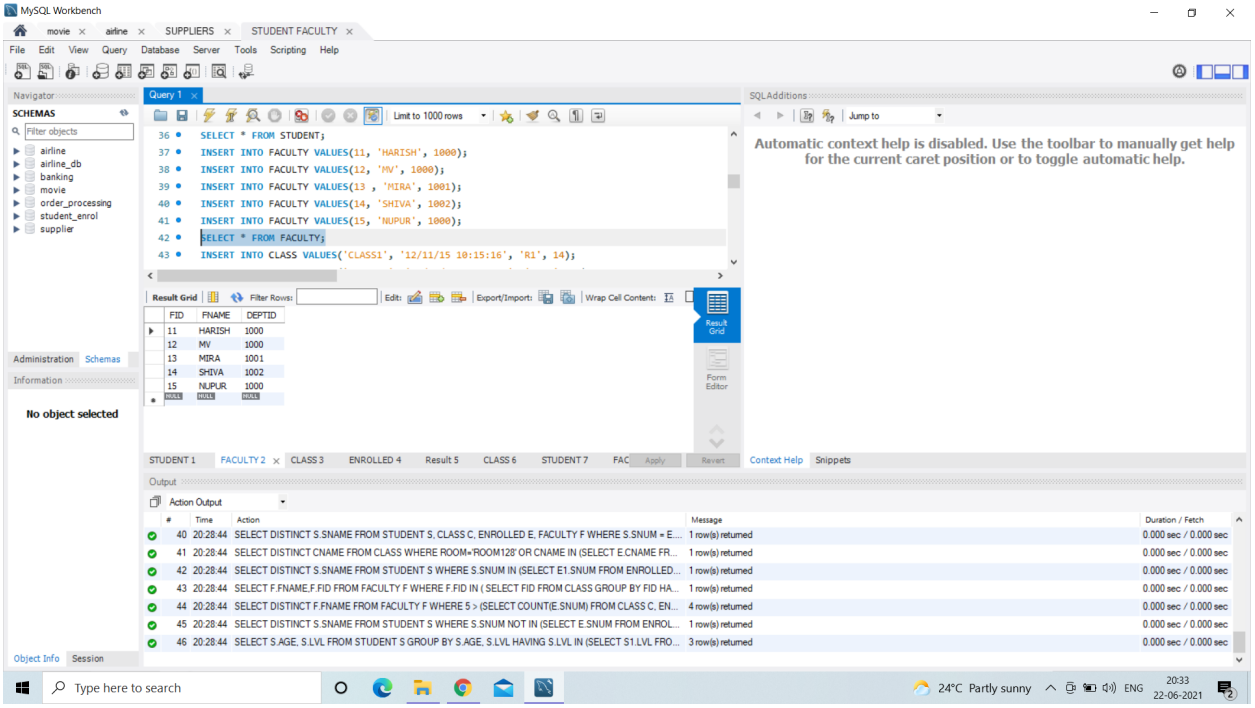
22-06-2021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airline_db
banking
movie
order_processing
student_enrol
supplier
Query 1
Limit to 1000 rows
36 SELECT * FROM STUDENT;
37 INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
38 INSERT INTO FACULTY VALUES(12, 'MV', 1000);
39 INSERT INTO FACULTY VALUES(13 , 'MIRA', 1001);
40 INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
41 INSERT INTO FACULTY VALUES(15, 'NUPUR', 1000);
42 SELECT * FROM FACULTY;
43 INSERT INTO CLASS VALUES('CLASS1', '12/11/15 10:15:16', 'R1', 14);
Result Grid
FID FNAME DEPTID
11 HARISH 1000
12 MV 1000
13 MIRA 1001
14 SHIVA 1002
15 NUPUR 1000
SQLAdditions
Jump to
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Context Help
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44 20:28:44 SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, EN... 4 row(s) returned 0.000 sec / 0.000 sec
45 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROL... 1 row(s) returned 0.000 sec / 0.000 sec
46 20:28:44 SELECT S.AGE, S.LVL FROM STUDENT S GROUP BY S.AGE, S.LVL HAVING S.LVL IN (SELECT S1.LVL FRO... 3 row(s) returned 0.000 sec / 0.000 sec
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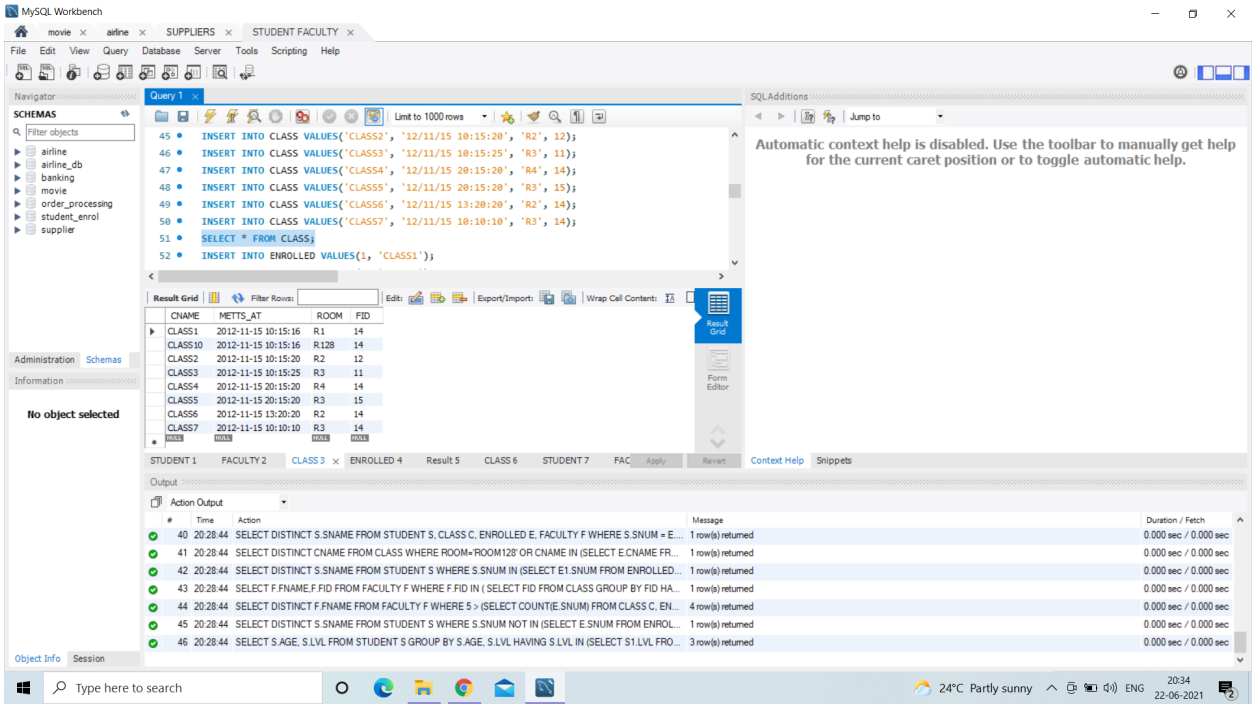
22-06-2021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order_processing
student_enrol
supplier
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
45 INSERT INTO CLASS VALUES('CLASS2', '12/11/15 10:15:20', 'R2', 12);
46 INSERT INTO CLASS VALUES('CLASS3', '12/11/15 10:15:25', 'R3', 11);
47 INSERT INTO CLASS VALUES('CLASS4', '12/11/15 20:15:20', 'R4', 14);
48 INSERT INTO CLASS VALUES('CLASS5', '12/11/15 20:15:20', 'R3', 15);
49 INSERT INTO CLASS VALUES('CLASS6', '12/11/15 13:20:20', 'R2', 14);
50 INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
51 SELECT * FROM CLASS;
52 INSERT INTO ENROLLED VALUES(1, 'CLASS1');
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
CNAME METTS_AT ROOM FID
CLASS1 2012-11-15 10:15:16 R1 14
CLASS10 2012-11-15 10:15:16 R128 14
CLASS2 2012-11-15 10:15:20 R2 12
CLASS3 2012-11-15 10:15:25 R3 11
CLASS4 2012-11-15 20:15:20 R4 14
CLASS5 2012-11-15 20:15:20 R3 15
CLASS6 2012-11-15 13:20:20 R2 14
CLASS7 2012-11-15 10:10:10 R3 14
Result Grid
Form Editor
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7 FAC
Apply
Revert
SQLAdditions
Jump to
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Action Output
Time Action Message Duration / Fetch
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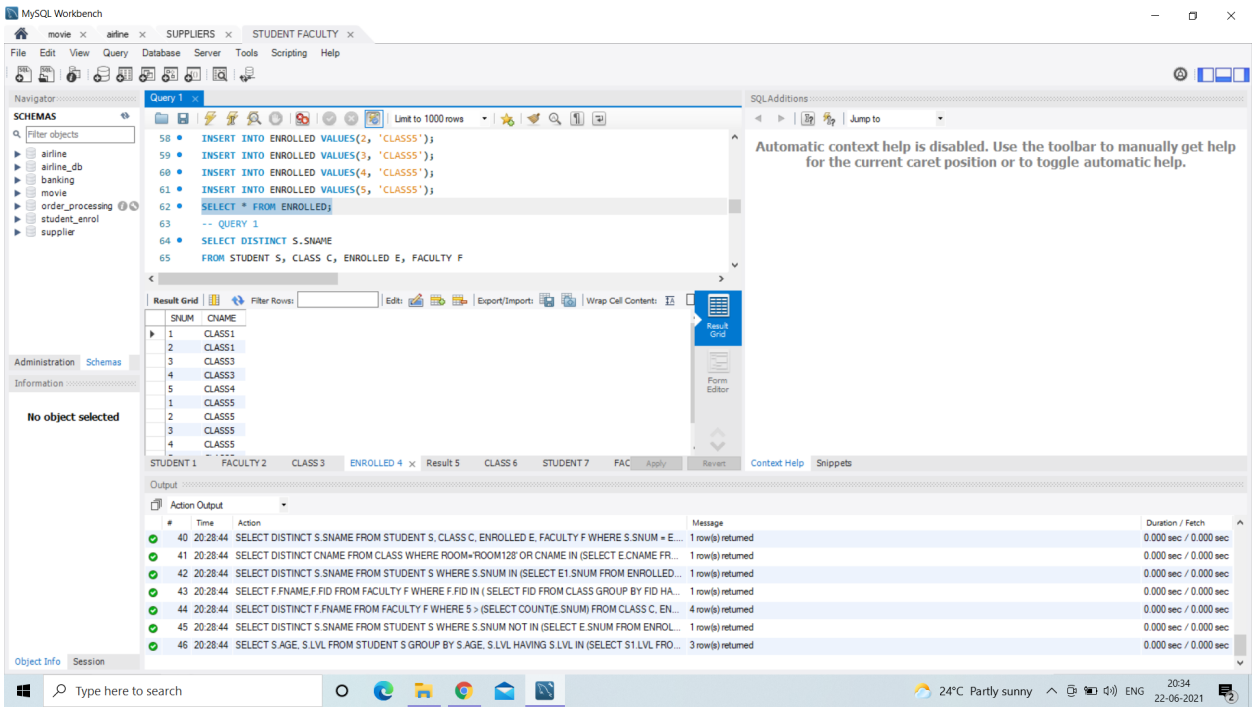
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banking
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order_processing
student_enrol
supplier
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
58 INSERT INTO ENROLLED VALUES(2, 'CLASS5');
59 INSERT INTO ENROLLED VALUES(3, 'CLASS5');
60 INSERT INTO ENROLLED VALUES(4, 'CLASS5');
61 INSERT INTO ENROLLED VALUES(5, 'CLASS5');
62 SELECT * FROM ENROLLED;
63 -- QUERY 1
64 SELECT DISTINCT S.SNAME
65 FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
SNUM CNAME
1 CLASS1
2 CLASS1
3 CLASS3
4 CLASS3
5 CLASS4
1 CLASS5
2 CLASS5
3 CLASS5
4 CLASS5
Result Grid
Form Editor
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7 FAC
Apply
Revert
SQLAdditions
Jump to
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Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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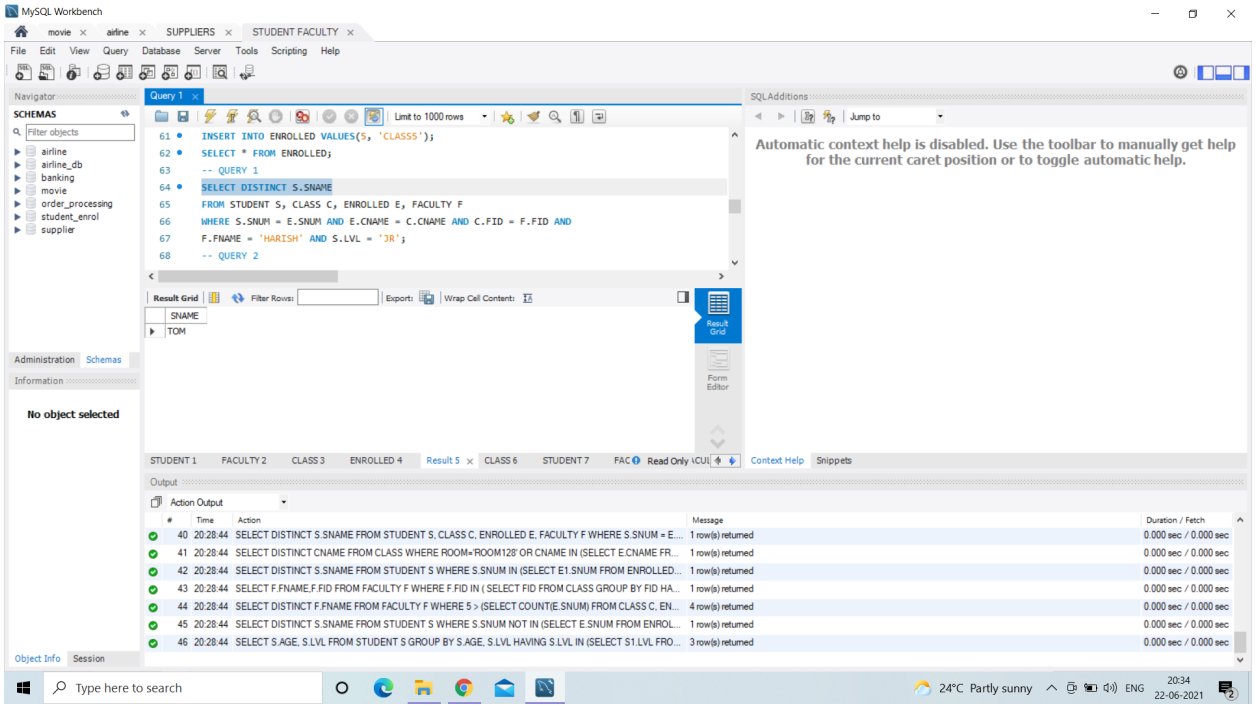
20:34
22-06-2021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order_processing
student_enrol
supplier
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
61 INSERT INTO ENROLLED VALUES(5, 'CLASS5');
62 SELECT * FROM ENROLLED;
63 -- QUERY 1
64 SELECT DISTINCT S.SNAME
65 FROM STUDENT S, CLASS C, ENROLLED E, FACULTY F
66 WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND
67 F.FNAME = 'HARISH' AND S.LVL = 'JR';
68 -- QUERY 2
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
SNAME
TOM
Result Grid
Form Editor
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7 FAC
Read Only
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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Type here to search
24°C Partly sunny
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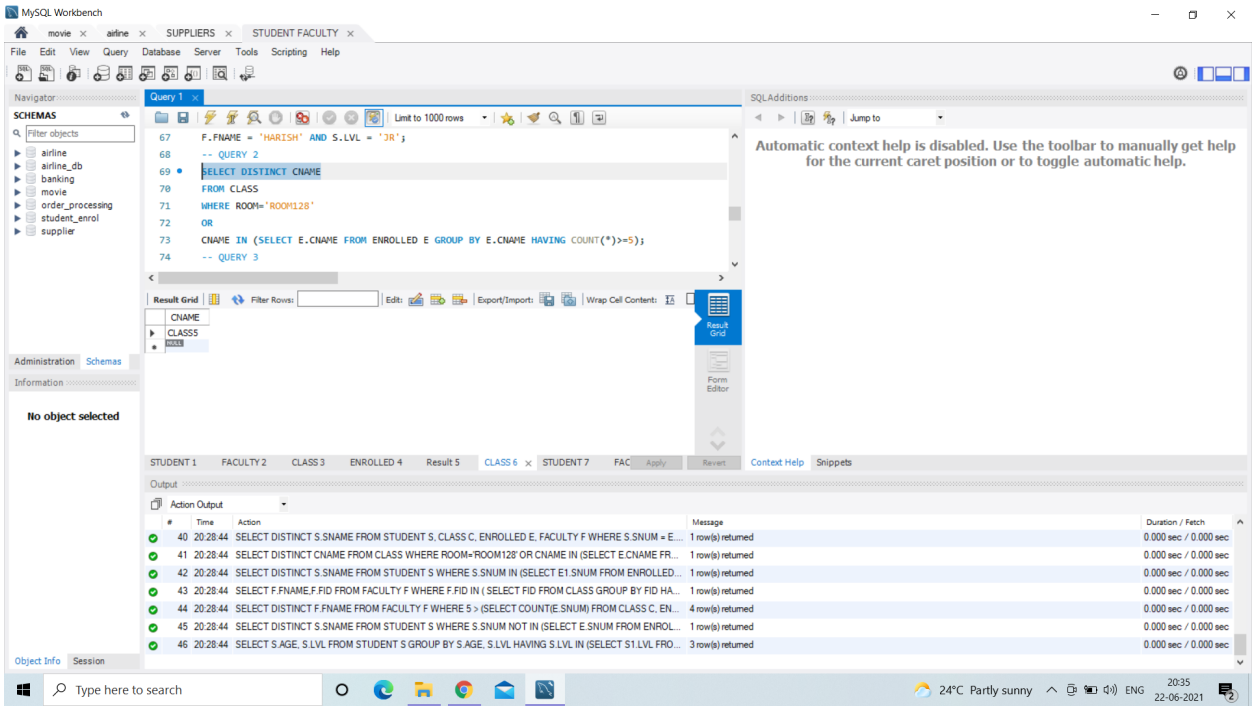
22-06-2021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student_enrol
supplier
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
67 F.FNAME = 'HARISH' AND S.LVL = 'JR';
68 -- QUERY 2
69 SELECT DISTINCT CNAME
70 FROM CLASS
71 WHERE ROOM='ROOM128'
72 OR
73 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
74 -- QUERY 3
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
CNAME
CLASS5
Result Grid
Form Editor
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7 FAC
Apply
Revert
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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44 20:28:44 SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, EN... 4 row(s) returned 0.000 sec / 0.000 sec
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Type here to search
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ENG
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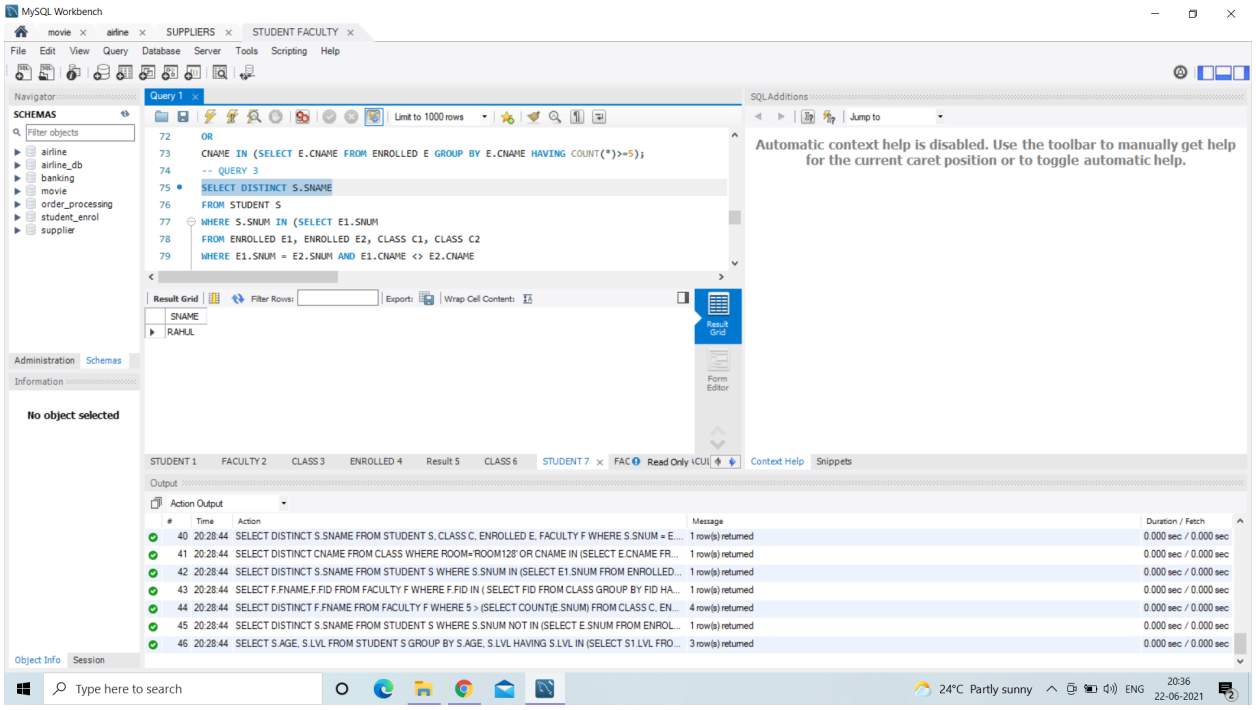
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order_processing
student_enrol
supplier
Query 1
Limit to 1000 rows
72 OR
73 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
74 -- QUERY 3
75 SELECT DISTINCT S.SNAME
76 FROM STUDENT S
77 WHERE S.SNUM IN (SELECT E1.SNUM
78 FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2
79 WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
SNAME
RAHUL
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
No object selected
Object Info Session
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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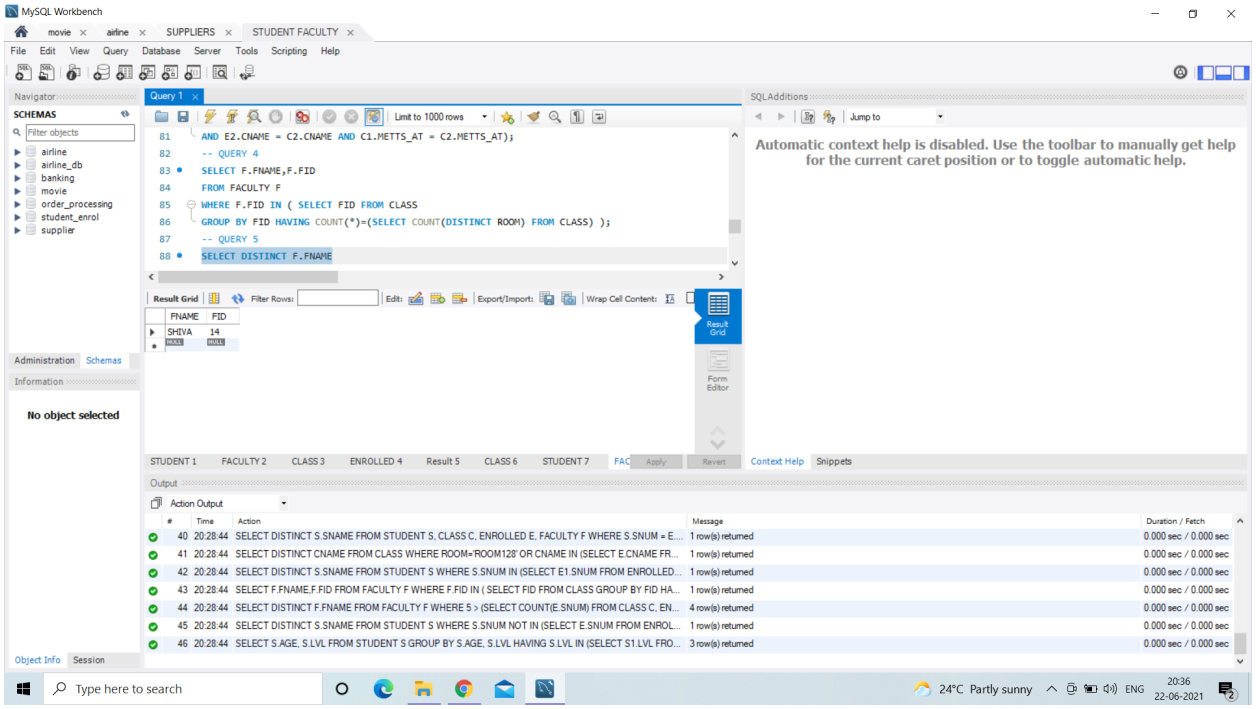
41 20:28:44 SELECT DISTINCT CNAME FROM CLASS WHERE ROOM='ROOM128' OR CNAME IN (SELECT E.CNAME FR... 1 row(s) returned 0.000 sec / 0.000 sec
42 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM IN (SELECT E1.SNUM FROM ENROLLED... 1 row(s) returned 0.000 sec / 0.000 sec
43 20:28:44 SELECT F.FNAME,F.FID FROM FACULTY F WHERE F.FID IN (SELECT FID FROM CLASS GROUP BY FID HA... 1 row(s) returned 0.000 sec / 0.000 sec
44 20:28:44 SELECT DISTINCT F.FNAME FROM FACULTY F WHERE 5 > (SELECT COUNT(E.SNUM) FROM CLASS C, EN... 4 row(s) returned 0.000 sec / 0.000 sec
45 20:28:44 SELECT DISTINCT S.SNAME FROM STUDENT S WHERE S.SNUM NOT IN (SELECT E.SNUM FROM ENROL... 1 row(s) returned 0.000 sec / 0.000 sec
46 20:28:44 SELECT S.AGE, S.LVL FROM STUDENT S GROUP BY S.AGE, S.LVL HAVING S.LVL IN (SELECT S1.LVL FRO... 3 row(s) returned 0.000 sec / 0.000 sec
Type here to search
24°C Partly sunny
ENG
20:36
22-06-2021


MySQL Workbench
movie
airline
SUPPLIERS
STUDENT FACULTY
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
airline
airline_db
banking
movie
order_processing
student_enrol
supplier
Query 1
Limit to 1000 rows
81 AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
82 -- QUERY 4
83 SELECT F.FNAME,F.FID
84 FROM FACULTY F
85 WHERE F.FID IN (SELECT FID FROM CLASS
86 GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS));
87 -- QUERY 5
88 SELECT DISTINCT F.FNAME
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
FNAME FID
SHIVA 14
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
No object selected
Object Info Session
STUDENT 1 FACULTY 2 CLASS 3 ENROLLED 4 Result 5 CLASS 6 STUDENT 7
Apply Revert
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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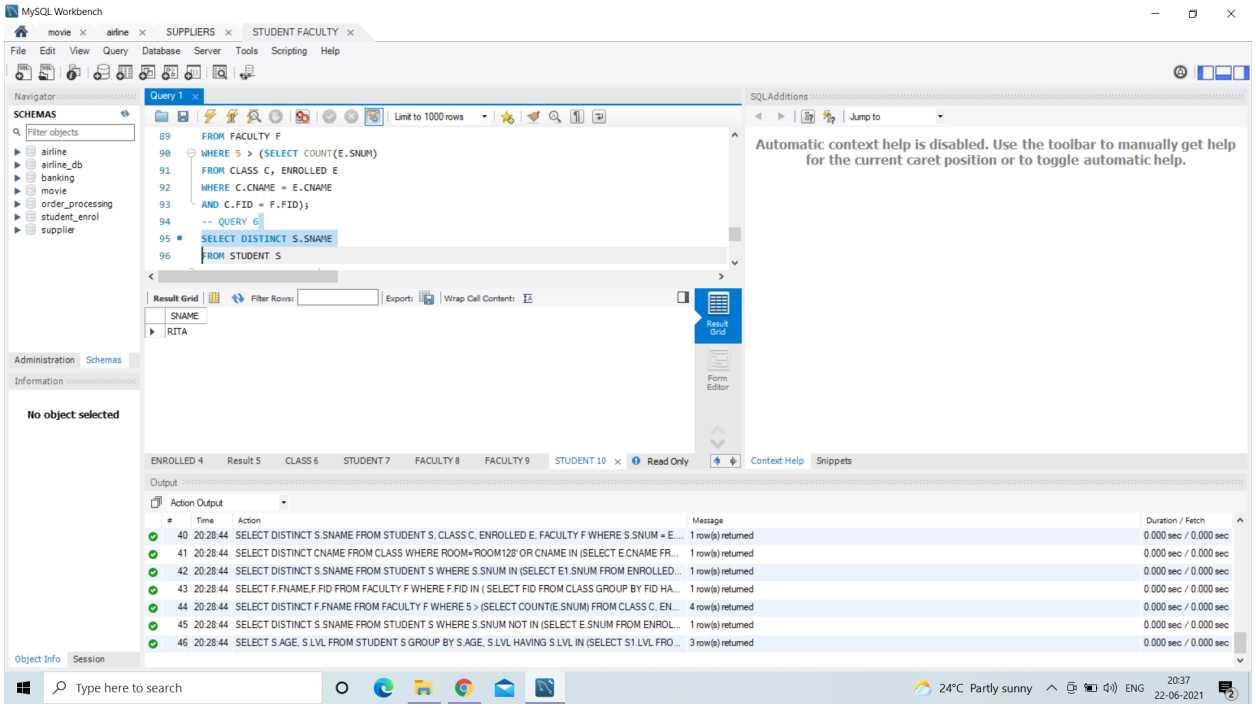
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movie
order_processing
student_enrol
supplier
Query 1
Limit to 1000 rows
89 FROM FACULTY F
90 WHERE 5 > (SELECT COUNT(E.SNUM)
91 FROM CLASS C, ENROLLED E
92 WHERE C.CNAME = E.CNAME
93 AND C.FID = F.FID);
94 -- QUERY 6
95 SELECT DISTINCT S.SNAME
96 FROM STUDENT S
Result Grid
Filter Rows:
Export:
Wrap Call Content:
SNAME
RITA
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
No object selected
Object Info Session
ENROLLED 4 Result 5 CLASS 6 STUDENT 7 FACULTY 8 FACULTY 9 STUDENT 10 Read Only
Context Help Snippets
Output
Action Output
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