

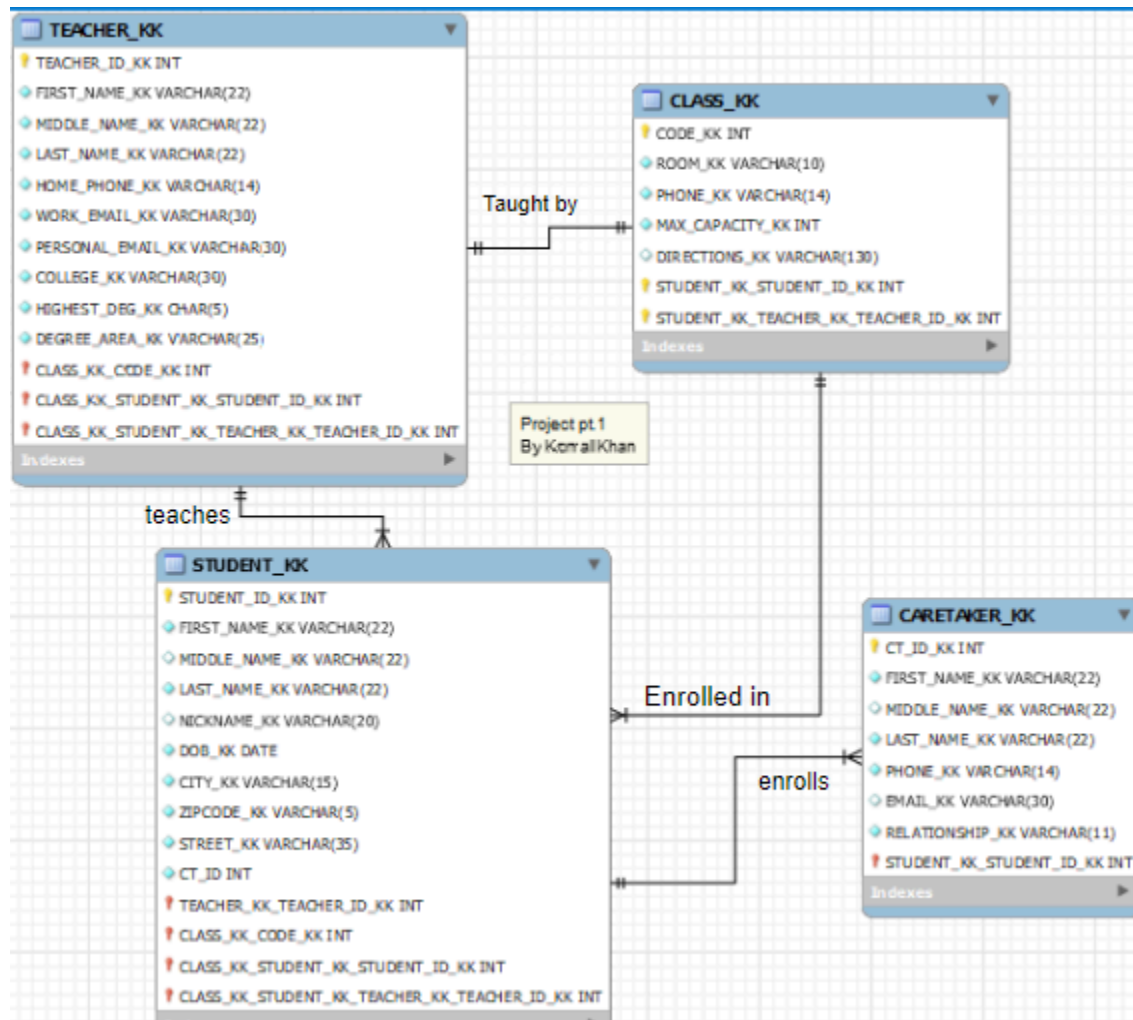
Assignment: P3
Name: Komal Khan
Section: IT214 DL3

**“Happy Learning” Kindergarten Operations
Database Query Report**



This database will be used to organize a private kindergarten’s operations, managing its entities. These entities include classes, students, parents, and teachers, along with their attributes, foreign keys, and relationships. The queries written will go through the data and show students, parents, and teachers’ relations, alphabetically.

Task 1 - ERD Model



Task 2 - Create database

Query 1 x

Limit to 1000 rows

```
1 # Task 2 Create database by Komal Khan
2 • DROP DATABASE IF EXISTS P3_IT214_LEAGUE;
3 • CREATE DATABASE IF NOT EXISTS P3_IT214_LEAGUE;
4 • USE P3_IT214_LEAGUE;
5 • SHOW DATABASES;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Database
information_schema
mysql
p3_it214_league
performance_schema
s1_it214_employee
s1_it214_topic
s2_it214_trainer
s3_it214_league
s4_it214_league

Result 1 x

Output

Action Output

#	Time	Action	Message
1	11:20:22	DROP DATABASE IF EXISTS P3_IT214_LEAGUE	0 row(s) affected, 1 warning(s): 1008 Can't
2	11:20:22	CREATE DATABASE IF NOT EXISTS P3_IT214_LEAGUE	1 row(s) affected
3	11:20:22	USE P3_IT214_LEAGUE	0 row(s) affected
4	11:20:22	SHOW DATABASES	10 row(s) returned

Task 3 - Create tables

```
# Task 3 Create tables by Komal Khan
SHOW TABLES;
CREATE TABLE TEACHER (
    TEACHER_ID INT PRIMARY KEY,
    FIRST_NAME VARCHAR(22) NOT NULL,
    MIDDLE_NAME VARCHAR(22),
    LAST_NAME VARCHAR(22) NOT NULL,
    HOME_PHONE CHAR(14) NOT NULL,
    WORK_EMAIL VARCHAR(30) NOT NULL,
    PERSONAL_EMAIL VARCHAR(30) NOT NULL,
    COLLEGE VARCHAR(30) NOT NULL,
    HIGHEST_DEG CHAR(5) NOT NULL,
    DEGREE_AREA VARCHAR(25) NOT NULL
);
```

```

CREATE TABLE CLASS (
    CODE CHAR(2) PRIMARY KEY,
    LEVEL VARCHAR(10) NOT NULL,
    COLOR VARCHAR(10) NOT NULL,
    ROOM VARCHAR(10) NOT NULL UNIQUE,
    PHONE CHAR(14) NOT NULL UNIQUE,
    MAX_CAPACITY INT NOT NULL,
    DIRECTIONS VARCHAR(130)
);

CREATE TABLE STUDENT (
    STUDENT_ID INT PRIMARY KEY,
    FIRST_NAME VARCHAR(22) NOT NULL,
    MIDDLE_NAME VARCHAR(22),
    LAST_NAME VARCHAR(22) NOT NULL,
    NICKNAME VARCHAR(20),
    DOB DATE NOT NULL,
    STREET VARCHAR(35) NOT NULL,
    CITY VARCHAR(15) NOT NULL,
    ZIPCODE VARCHAR(5) NOT NULL,
    CLASS_CODE CHAR(2) NOT NULL REFERENCES CLASS(CODE)
);


CREATE TABLE CARETAKER (
    CT_ID INT PRIMARY KEY,
    FIRST_NAME VARCHAR(22) NOT NULL,
    MIDDLE_NAME VARCHAR(22),
    LAST_NAME VARCHAR(22) NOT NULL,
    PHONE VARCHAR(14) NOT NULL,
    EMAIL VARCHAR(30) NOT NULL,
    RELATIONSHIP VARCHAR(11)
);


SHOW TABLES;
DESCRIBE TEACHER;
DESCRIBE CLASS;
DESCRIBE STUDENT;
DESCRIBE CARETAKER;


```


Result Grid | Filter Rows:

Tables_in_p3_it214_league

Result Grid	 Filter Rows:
Tables_in_p3_it214_league	
►	caretaker
	class
	student
	teacher

Result Grid		 Filter Rows:			Export:
	Field	Type	Null	Key	Def
►	TEACHER_ID	int(11)	NO	PRI	NULL
	FIRST_NAME	varchar(22)	NO		NULL
	MIDDLE_NAME	varchar(22)	YES		NULL
	LAST_NAME	varchar(22)	NO		NULL
	HOME_PHONE	char(14)	NO		NULL
	WORK_EMAIL	varchar(30)	NO		NULL
	PERSONAL_EMAIL	varchar(30)	NO		NULL
	COLLEGE	varchar(30)	NO		NULL
	HIGHEST_DEG	char(5)	NO		NULL
	DEGREE_AREA	varchar(25)	NO		NULL

Result Grid		 Filter Rows:	Export:		
	Field	Type	Null	Key	Default
▶	CODE	int(11)	NO	PRI	NULL
	LEVEL	varchar(10)	NO		NULL
	COLOR	varchar(10)	NO		NULL
	ROOM	varchar(10)	NO	UNI	NULL
	PHONE	char(14)	NO	UNI	NULL
	MAX_CAPACITY	int(11)	NO		NULL
	DIRECTIONS	varchar(130)	YES		NULL

Result Grid		 Filter Rows:			Export
	Field	Type	Null	Key	Default
▶	STUDENT_ID	int(11)	NO	PRI	NULL
	FIRST_NAME	varchar(22)	NO		NULL
	MIDDLE_NAME	varchar(22)	YES		NULL
	LAST_NAME	varchar(22)	NO		NULL
	NICKNAME	varchar(20)	YES		NULL
	DOB	date	NO		NULL
	STREET	varchar(35)	NO		NULL
	CITY	varchar(15)	NO		NULL
	ZIPCODE	varchar(5)	NO		NULL
	CLASS_CODE	char(2)	NO		NULL

Result Grid						Filter Rows:	Export
	Field	Type	Null	Key	Def		
▶	CT_ID	int(11)	NO	PRI	NULL		
	FIRST_NAME	varchar(22)	NO		NULL		
	MIDDLE_NAME	varchar(22)	YES		NULL		
	LAST_NAME	varchar(22)	NO		NULL		
	PHONE	varchar(14)	NO		NULL		
	EMAIL	varchar(30)	NO		NULL		
	RELATIONSHIP	varchar(11)	YES		NULL		

✓	8	11:40:20	SHOW DATABASES	10 row(s) returned
✓	9	11:40:20	SHOW TABLES	0 row(s) returned
✓	10	11:40:20	CREATE TABLE TEACHER (TEACHER_ID INT PRIMARY KEY, FIRST_NAME VARCH...	0 row(s) affected
✓	11	11:40:20	CREATE TABLE CLASS (CODE INT PRIMARY KEY, LEVEL VARCHAR(10) NOT NULL...	0 row(s) affected
✓	12	11:40:20	CREATE TABLE STUDENT (STUDENT_ID INT PRIMARY KEY, FIRST_NAME VARC...	0 row(s) affected
✓	13	11:40:20	CREATE TABLE CARETAKER (CT_ID INT PRIMARY KEY, FIRST_NAME VARCHAR(2...	0 row(s) affected
✓	14	11:40:20	SHOW TABLES	4 row(s) returned
✓	15	11:40:20	DESCRIBE TEACHER	10 row(s) returned
✓	16	11:40:20	DESCRIBE CLASS	7 row(s) returned
✓	17	11:40:20	DESCRIBE STUDENT	10 row(s) returned
✓	18	11:40:20	DESCRIBE CARETAKER	7 row(s) returned

Task 4 - Add data

Task 4 - Add data by Komal Khan

```
SELECT * FROM TEACHER;
```

```
SELECT * FROM CLASS;
```

```
SELECT * FROM STUDENT;
```

```
SELECT * FROM CARETAKER;
```

```
INSERT INTO TEACHER VALUES
```

```
(1, 'Amira', NULL, 'Hassad', '(703) 729-1218', 'ahassad@hotmail.com', 'ahassad@gmail.com', 'George Mason', 'PhD', 'Ca
(2, 'Shah', 'Rukh', 'Khan', '(201) 829-3920', 'kingkhan@yahoo.com', 'kingkhan@gmail.com', 'Princeton', 'BA', 'Acting'
(3, 'Aamin', NULL, 'Khan', '(571) 891-1939', 'aak@hotmail.com', 'aak@gmail.com', 'Harvard', 'BS', 'Drama'),
(4, 'Aishwarya', 'Rai', 'Bachan', '(703) 819-3810', 'aishb@hotmail.com', 'aishb@gmail.com', 'Cornell', 'MA', 'Acting'
(5, 'Jhanvi', NULL, 'Kapoor', '(414) 920-1980', 'nadpaar@outlook.com', 'nadpaar@gmail.com', 'VCU', 'BS', 'Drama');
```

```
INSERT INTO CLASS VALUES
```

```
('RT', 'turtles', 'red', 'S1002', '(571) 728-2903', 50, NULL),
('RF', 'foxes', 'red', 'D1022', '(703) 102-1920', 30, 'down the hall, left'),
('BF', 'foxes', 'blue', 'P2003', '(703) 192-1029', 35, 'upstairs'),
('GM', 'monkeys', 'green', 'D3001', '(342) 182-1429', 60, 'third floor'),
('BT', 'turtles', 'blue', 'S2019', '(571) 573-4521', 50, NULL);
```

```
INSERT INTO STUDENT VALUES
```

```
(1, 'Elina', 'Sakina', 'Mahmood', 'bozo', '2008-07-15', 'Mountwood Drive', 'Manassas', '20110', 'RF'),
(2, 'Kareena', 'Kapoor', 'Khan', 'poo', '2009-03-12', '4th Cross Road', 'Mumbai', '22919', 'RT'),
(3, 'Kajol', NULL, 'Devgan', 'simran', '2011-02-16', 'Linking Road', 'Mumbai', '22919', 'BT'),
(4, 'Preity', NULL, 'Zinta', NULL, '2010-01-03', 'Bandra Promenade', 'Mumbai', '22919', 'GM'),
(5, 'Madhuri', NULL, 'Dixit', NULL, '2008-10-07', 'Powder Terrace', 'Beverly Hills', '20141', 'BF');
```

INSERT INTO CARETAKER VALUES

```
(23, 'Minahil', NULL, 'Chaudhry', '(571) 819-1018', 'mchaud@gmail.com', 'mom'),
(12, 'Beyonce', 'Knowles', 'Carter', '(703) 192-1945', 'bkc@yahoo.com', 'mom'),
(31, 'Jackie', NULL, 'Chan', '(456) 617-7892', 'jsjb@gmail.com', 'dad'),
(20, 'Steve', NULL, 'Rogers', '(414) 710-2130', 'captain@hotmail.com', 'caretaker'),
(5, 'Robyn', 'Rihanna', 'Fenty', '(703) 517-2839', 'riri@gmail.com', 'mom');

SELECT * FROM TEACHER;

SELECT * FROM CLASS;

SELECT * FROM STUDENT;

SELECT * FROM CARETAKER;
```

TEACHER_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	HOME_PHONE	WORK_EMAIL	PERSONAL_EMAIL	COLLEGE	HIGHEST_DEG	DEGREE_AREA
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CODE	LEVEL	COLOR	ROOM	PHONE	MAX_CAPACITY	DIRECTIONS
NULL	NULL	NULL	NULL	NULL	NULL	NULL

STUDENT_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	NICKNAME	DOB	STREET	CITY	ZIPCODE	CLASS_CODE
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CT_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	PHONE	EMAIL	RELATIONSHIP
NULL	NULL	NULL	NULL	NULL	NULL	NULL

TEACHER_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	HOME_PHONE	WORK_EMAIL	PERSONAL_EMAIL	COLLEGE	HIGHEST_DEG
1	Amira	NULL	Hassad	(703) 729-1218	ahassad@hotmail.com	ahassad@gmail.com	George Mason	PhD
2	Shah	Rukh	Khan	(201) 829-3920	kingkhan@yahoo.com	kingkhan@gmail.com	Princeton	BA
3	Aamir	NULL	Khan	(571) 891-1939	aak@hotmail.com	aak@gmail.com	Harvard	BS
4	Aishwarya	Rai	Bachan	(703) 819-3810	aishb@hotmail.com	aishb@gmail.com	Cornell	MA
5	Jhanvi	NULL	Kapoor	(414) 920-1980	nadpaar@outlook.com	nadpaar@gmail.com	VCU	BS
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CODE	LEVEL	COLOR	ROOM	PHONE	MAX_CAPACITY	DIRECTIONS
BF	foxes	blue	P2003	(703) 192-1029	35	upstairs
BT	turtles	blue	S2019	(571) 573-4521	50	NULL
GM	monkeys	green	D3001	(342) 182-1429	60	third floor
RF	foxes	red	D1022	(703) 102-1920	30	down the hall, left
RT	turtles	red	S1002	(571) 728-2903	50	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid										
		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:		
STUDENT_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	NICKNAME	DOB	STREET	CITY	ZIPCODE	CLASS	
1	Elina	Sakina	Mahmood	bozo	2008-07-15	Mountwood Drive	Manassas	20110	RF	
2	Kareena	Kapoor	Khan	poo	2009-03-12	4th Cross Road	Mumbai	22919	RT	
3	Kajol	NULL	Devgan	simran	2011-02-16	Linking Road	Mumbai	22919	BT	
4	Preity	NULL	Zinta	NULL	2010-01-03	Bandra Promenade	Mumbai	22919	GM	
5	Madhuri	NULL	Dixit	NULL	2008-10-07	Powder Terrace	Beverly Hills	20141	BF	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

Result Grid							
		Filter Rows:		Edit:		Export/Import:	
CT_ID	FIRST_NAME	MIDDLE_NAME	LAST_NAME	PHONE	EMAIL	RELATIONSHIP	
5	Robyn	Rihanna	Fenty	(703) 517-2839	riri@gmail.com	mom	
12	Beyonce	Knowles	Carter	(703) 192-1945	bkc@yahoo.com	mom	
20	Steve	NULL	Rogers	(414) 710-2130	captain@hotmail.com	caretaker	
23	Minahil	NULL	Chaudhry	(571) 819-1018	mchaud@gmail.com	mom	
31	Jackie	NULL	Chan	(456) 617-7892	jsjb@gmail.com	dad	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	

119	13:23:49	SELECT * FROM TEACHER LIMIT 0, 1000				0 row(s) returned	
120	13:23:50	SELECT * FROM CLASS LIMIT 0, 1000				0 row(s) returned	
121	13:23:50	SELECT * FROM STUDENT LIMIT 0, 1000				0 row(s) returned	
122	13:23:50	SELECT * FROM CARETAKER LIMIT 0, 1000				0 row(s) returned	
123	13:23:50	INSERT INTO TEACHER VALUES (1, 'Amira', NULL, 'Hassad', '(703) 729-1218', 'ahassad...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	
124	13:23:50	INSERT INTO CLASS VALUES ('RT', 'turtles', 'red', 'S1002', '(571) 728-2903', 50, NULL), (...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	
125	13:23:50	INSERT INTO STUDENT VALUES (1, 'Elina', 'Sakina', 'Mahmood', 'bozo', '2008-07-15', 'Mo...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	
126	13:23:50	INSERT INTO CARETAKER VALUES (23, 'Minahil', NULL, 'Chaudhry', '(571) 819-1018', 'm...				5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	
127	13:23:50	SELECT * FROM TEACHER LIMIT 0, 1000				5 row(s) returned	
128	13:23:50	SELECT * FROM CLASS LIMIT 0, 1000				5 row(s) returned	
129	13:23:50	SELECT * FROM STUDENT LIMIT 0, 1000				5 row(s) returned	
130	13:23:50	SELECT * FROM CARETAKER LIMIT 0, 1000				5 row(s) returned	

Task 5 - Query the data

Task 5 Query the data by Komal Khan

```
SELECT CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student', LEVEL AS 'Level', COLOR, ROOM, CONCAT(TEACHER.FIRST_NAME, TEACHER.LAST_NAME)
FROM STUDENT, CLASS, TEACHER
ORDER BY STUDENT.FIRST_NAME ASC;
```

```
SELECT LEVEL, COLOR, CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student Name', NICKNAME
FROM STUDENT, CLASS
ORDER BY STUDENT.FIRST_NAME ASC;
```

```
SELECT CONCAT(CARETAKER.FIRST_NAME, CARETAKER.LAST_NAME) AS 'Parent Name', EMAIL, CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student Nam
FROM CARETAKER, STUDENT, CLASS
ORDER BY CARETAKER.FIRST_NAME ASC;
```



```
SELECT CONCAT(TEACHER.FIRST_NAME, TEACHER.LAST_NAME) AS 'Teacher', CONCAT(CARETAKER.FIRST_NAME, CARETAKER.LAST_NAME) AS 'Parent', CONCAT(STUDEN
FROM CARETAKER, STUDENT, TEACHER
ORDER BY TEACHER.FIRST_NAME ASC;
```





LEVEL AS 'Level', COLOR, ROOM, CONCAT(TEACHER.FIRST_NAME, TEACHER.LAST_NAME) AS 'Teacher'

AS 'Student Name', NICKNAME

t Name', EMAIL, CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student Name', LEVEL, COLOR

CONCAT(CARETAKER.FIRST_NAME, CARETAKER.LAST_NAME) AS 'Parent', CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student Name'

Result Grid   Filter Rows:				
Teacher	Parent	Student Name		
ShahKhan	JackieChan	ElinaMahmood		
ShahKhan	RobynFenty	ElinaMahmood		
ShahKhan	JackieChan	MadhuriDixit		
ShahKhan	RobynFenty	PreityZinta		
ShahKhan	JackieChan	KajolDevgan		
ShahKhan	SteveRogers	KajolDevgan		
ShahKhan	SteveRogers	PreityZinta		
ShahKhan	BeyonceCarter	KareenaKhan		
Parent Name	EMAIL	Student Name	LEVEL	COLOR
BeyonceCarter	bkc@yahoo.com	PreityZinta	turtles	blue
BeyonceCarter	bkc@yahoo.com	ElinaMahmood	foxes	blue
JackieChan	jsjb@gmail.com	KajolDevgan	foxes	blue
JackieChan	jsjb@gmail.com	KareenaKhan	turtles	red
JackieChan	jsjb@gmail.com	PreityZinta	foxes	blue
JackieChan	jsjb@gmail.com	MadhuriDixit	monkeys	green
LEVEL	COLOR	Student Name	NICKNAME	
foxes	blue	ElinaMahmood	bozo	
turtles	blue	ElinaMahmood	bozo	
monkeys	green	ElinaMahmood	bozo	
foxes	red	ElinaMahmood	bozo	
turtles	red	ElinaMahmood	bozo	
foxes	blue	KajolDevgan	simran	
turtles	blue	KajolDevgan	simran	
monkeys	green	KajolDevgan	simran	

Result Grid   Filter Rows: Export: 

Student	Level	COLOR	ROOM	Teacher
ElinaMahmood	foxes	blue	P2003	AishwaryaBa...
ElinaMahmood	turtles	red	S1002	JhanviKapoor
ElinaMahmood	foxes	red	D1022	JhanviKapoor
KajolDevgan	turtles	blue	S2019	ShahKhan
KajolDevgan	foxes	blue	P2003	AmiraHassad

- ✓ 295 14:02:22 SELECT CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student', LEVEL AS 'Level', COL... 125 row(s) returned
- ✓ 296 14:02:22 SELECT LEVEL, COLOR, CONCAT(STUDENT.FIRST_NAME, STUDENT.LAST_NAME) AS 'Student Name', ... 25 row(s) returned
- ✓ 297 14:02:22 SELECT CONCAT(CARETAKER.FIRST_NAME, CARETAKER.LAST_NAME) AS 'Parent Name', EMAIL, CON... 125 row(s) returned
- ✓ 298 14:02:22 SELECT CONCAT(TEACHER.FIRST_NAME, TEACHER.LAST_NAME) AS 'Teacher', CONCAT(CARETAKER.... 125 row(s) returned