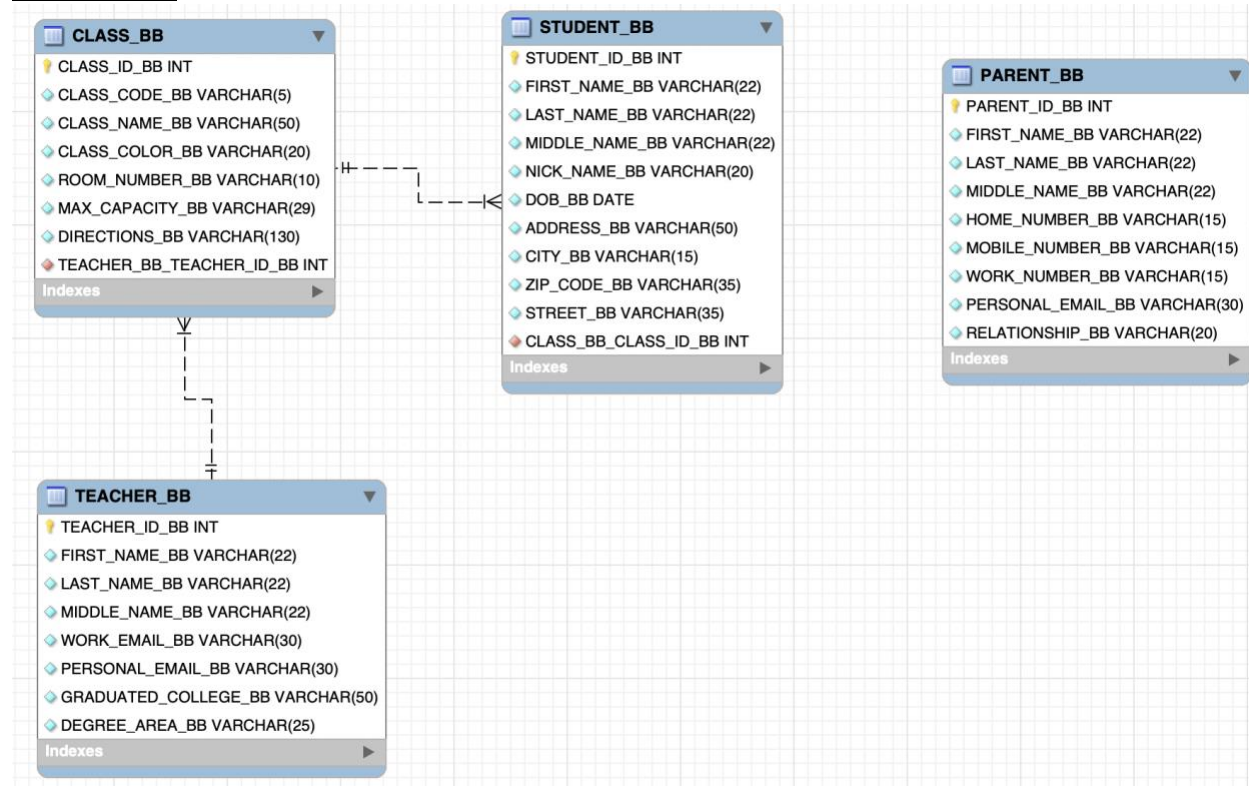Assignment: P3

Name: Bethlehem Belay

Section: IT 214 – DL4

Task 1 – ERD

CLASS_BB
- CLASS_ID_BB INT
- CLASS_CODE_BB VARCHAR(5)
- CLASS_NAME_BB VARCHAR(50)
- CLASS_COLOR_BB VARCHAR(20)
- ROOM_NUMBER_BB VARCHAR(10)
- MAX_CAPACITY_BB VARCHAR(29)
- DIRECTIONS_BB VARCHAR(130)
- TEACHER_BB_TEACHER_ID_BB INT
- Indexes

STUDENT_BB
- STUDENT_ID_BB INT
- FIRST_NAME_BB VARCHAR(22)
- LAST_NAME_BB VARCHAR(22)
- MIDDLE_NAME_BB VARCHAR(22)
- NICK_NAME_BB VARCHAR(20)
- DOB_BB DATE
- ADDRESS_BB VARCHAR(50)
- CITY_BB VARCHAR(15)
- ZIP_CODE_BB VARCHAR(35)
- STREET_BB VARCHAR(35)
- CLASS_BB_CLASS_ID_BB INT
- Indexes

PARENT_BB
- PARENT_ID_BB INT
- FIRST_NAME_BB VARCHAR(22)
- LAST_NAME_BB VARCHAR(22)
- MIDDLE_NAME_BB VARCHAR(22)
- HOME_NUMBER_BB VARCHAR(15)
- MOBILE_NUMBER_BB VARCHAR(15)
- WORK_NUMBER_BB VARCHAR(15)
- PERSONAL_EMAIL_BB VARCHAR(30)
- RELATIONSHIP_BB VARCHAR(20)
- Indexes

TEACHER_BB
- TEACHER_ID_BB INT
- FIRST_NAME_BB VARCHAR(22)
- LAST_NAME_BB VARCHAR(22)
- MIDDLE_NAME_BB VARCHAR(22)
- WORK_EMAIL_BB VARCHAR(30)
- PERSONAL_EMAIL_BB VARCHAR(30)
- GRADUATED_COLLEGE_BB VARCHAR(50)
- DEGREE_AREA_BB VARCHAR(25)
- Indexes

Name: CLASS_BB

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Exp
CLASS_ID_BB	INT	✓	✓	✓						
CLASS_COD...	VARCHAR(5)		✓							
CLASS_NAM...	VARCHAR(50)		✓							
CLASS_COL...	VARCHAR(20)		✓							
ROOM_NUM...	VARCHAR(10)		✓							
MAX_CAPACI...	VARCHAR(29)		✓							
DIRECTIONS...	VARCHAR(130)		✓							
TEACHER_BB...	INT		✓							

Name: STUDENT_BB

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expres
STUDENT_ID...	INT	✓	✓	✓						
FIRST_NAME...	VARCHAR(22)		✓							
LAST_NAME...	VARCHAR(22)		✓							
MIDDLE_NA...	VARCHAR(22)		✓							
NICK_NAME_...	VARCHAR(20)		✓							
DOB_BB	DATE		✓							
ADDRESS_BB	VARCHAR(50)		✓							
CITY_BB	VARCHAR(15)		✓							
ZIP_CODE_BB	VARCHAR(35)		✓							
STREET_BB	VARCHAR(35)		✓							

Name: PARENT_BB

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
PARENT_ID_BB	INT	☑	☑	☑	☐	☐	☐	☐	☐	
FIRST_NAME...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
LAST_NAME...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
MIDDLE_NA...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
HOME_NUM...	VARCHAR(15)	☐	☑	☐	☐	☐	☐	☐	☐	
MOBILE_NU...	VARCHAR(15)	☐	☑	☐	☐	☐	☐	☐	☐	
WORK_NUM...	VARCHAR(15)	☐	☑	☐	☐	☐	☐	☐	☐	
PERSONAL_E...	VARCHAR(30)	☐	☑	☐	☐	☐	☐	☐	☐	
RELATIONSHI...	VARCHAR(20)	☐	☑	☐	☐	☐	☐	☐	☐	

Name: TEACHER_BB

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
TEACHER_ID...	INT	☑	☑	☑	☐	☐	☐	☐	☐	
FIRST_NAME...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
LAST_NAME...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
MIDDLE_NA...	VARCHAR(22)	☐	☑	☐	☐	☐	☐	☐	☐	
WORK_EMAI...	VARCHAR(30)	☐	☑	☐	☐	☐	☐	☐	☐	
PERSONAL_E...	VARCHAR(30)	☐	☑	☐	☐	☐	☐	☐	☐	
GRADUATED...	VARCHAR(50)	☐	☑	☐	☐	☐	☐	☐	☐	
DEGREE_ARE...	VARCHAR(25)	☐	☑	☐	☐	☐	☐	☐	☐	

#Task 2 – create database

```
1     # Task 2 Create Database by Bethlehem Belay
2  •  DROP DATABASE IF EXISTS P3_DB;
3  •  CREATE DATABASE P3_DB;
4
5  •  USE P3_DB;
6  •  SHOW DATABASES;
```

Result Grid | Filter Rows: | Search | Export:

Database	
HR	
HR_BB	
information_schema	
mysql	
P3_DB	
performance_schema	
S2_A1_IT214_TOPIC	
S3_DB	
S4_DB	
sys	

#Task 3 – Create table

```sql
# Task 3 — Create tables by Bethlehem Belay
SHOW TABLES;

CREATE TABLE TEACHER_BB (
TEACHER_ID_BB INT PRIMARY KEY,
FIRST_NAME_BB VARCHAR(22),
LAST_NAME_BB VARCHAR(22),
MIDDLE_NAME_BB VARCHAR(22),
WORK_EMAIL_BB VARCHAR(30),
PERSONAL_EMAIL_BB VARCHAR(30),
GRADUATED_COLLEGE_BB VARCHAR(50),
DEGREE_AREA_BB VARCHAR(25)
);

CREATE TABLE CLASS_BB (
CLASS_ID_BB INT PRIMARY KEY,
CLASS_CODE_BB VARCHAR(5),
CLASS_NAME_BB VARCHAR(50),
CLASS_COLOR_BB VARCHAR(20),
ROOM_NUMBER_BB VARCHAR(10),
MAX_CAPACITY_BB VARCHAR(29),
DIRECTIONS_BB VARCHAR(130),
TEACHER_ID_BB INT,
FOREIGN KEY (TEACHER_ID_BB) REFERENCES TEACHER_BB(TEACHER_ID_BB)
);

CREATE TABLE STUDENT_BB (
STUDENT_ID_BB INT PRIMARY KEY,
FIRST_NAME_BB VARCHAR(22),
LAST_NAME_BB VARCHAR(22),
MIDDLE_NAME_BB VARCHAR(22),
NICK_NAME_BB VARCHAR(20),
DOB_BB DATE,
ADDRESS_BB VARCHAR(50),
```

```sql
    CITY_BB VARCHAR(15),
    ZIP_CODE_BB VARCHAR(10),
    STREET_BB VARCHAR(35),
    CLASS_ID_BB INT,
    FOREIGN KEY (CLASS_ID_BB) REFERENCES CLASS_BB(CLASS_ID_BB)
    );

CREATE TABLE PARENT_BB (
    PARENT_ID_BB INT PRIMARY KEY,
    FIRST_NAME_BB VARCHAR(22),
    LAST_NAME_BB VARCHAR(22),
    MIDDLE_NAME_BB VARCHAR(22),
    HOME_NUMBER_BB VARCHAR(15),
    MOBILE_NUMBER_BB VARCHAR(15),
    WORK_NUMBER_BB VARCHAR(15),
    PERSONAL_EMAIL_BB VARCHAR(30),
    RELATIONSHIP_BB VARCHAR(20)
    );
CREATE TABLE PARENT_BB_STUDENT_BB (
    PARENT_ID_BB INT,
    STUDENT_ID_BB INT,
    PRIMARY KEY (PARENT_ID_BB, STUDENT_ID_BB),
    FOREIGN KEY (PARENT_ID_BB) REFERENCES PARENT_BB(PARENT_ID_BB),
    FOREIGN KEY (STUDENT_ID_BB) REFERENCES STUDENT_BB(STUDENT_ID_BB)
    );

CREATE TABLE TEACHER_BB_STUDENT_BB (
    TEACHER_ID_BB INT,
    STUDENT_ID_BB INT,
    PRIMARY KEY (TEACHER_ID_BB, STUDENT_ID_BB),
    FOREIGN KEY (TEACHER_ID_BB) REFERENCES TEACHER_BB(TEACHER_ID_BB),
    FOREIGN KEY (STUDENT_ID_BB) REFERENCES STUDENT_BB(STUDENT_ID_BB)
    );
```

```sql
SHOW TABLES;
DESCRIBE CLASS_BB;
DESCRIBE STUDENT_BB;
DESCRIBE PARENT_BB;
DESCRIBE TEACHER_BB;
```

Result Grid | Filter Rows: 🔍 Search | Export: 💾

Tables_in_p3_...

Result Grid | Filter Rows: 🔍 Search | Export: 💾

Tables_in_p3_db	
CLASS_BB	
PARENT_BB	
PARENT_BB_STUDENT_BB	
STUDENT_BB	
TEACHER_BB	
TEACHER_BB_STUDENT_BB	

Result Grid | Filter Rows: 🔍 Search | Export: 💾

Field	Type	Null	Key	Default	Extra
CLASS_ID_BB	int	NO	PRI	NULL	
CLASS_CODE_BB	varchar(5)	YES		NULL	
CLASS_NAME_BB	varchar(50)	YES		NULL	
CLASS_COLOR_BB	varchar(20)	YES		NULL	
ROOM_NUMBER_BB	varchar(10)	YES		NULL	
MAX_CAPACITY_BB	varchar(29)	YES		NULL	
DIRECTIONS_BB	varchar(130)	YES		NULL	
TEACHER_ID_BB	int	YES	MUL	NULL	

Result Grid | Filter Rows: Search | Export:

Field	Type	Null	Key	Default	Extra
STUDENT_ID_BB	int	NO	PRI	NULL	
FIRST_NAME_BB	varchar(22)	YES		NULL	
LAST_NAME_BB	varchar(22)	YES		NULL	
MIDDLE_NAME_BB	varchar(22)	YES		NULL	
NICK_NAME_BB	varchar(20)	YES		NULL	
DOB_BB	date	YES		NULL	
ADDRESS_BB	varchar(50)	YES		NULL	
CITY_BB	varchar(15)	YES		NULL	
ZIP_CODE_BB	varchar(10)	YES		NULL	
STREET_BB	varchar(35)	YES		NULL	
CLASS_ID_BB	int	YES	MUL	NULL	

Result Grid | Filter Rows: Search | Export:

Field	Type	Null	Key	Default	Extra
PARENT_ID_BB	int	NO	PRI	NULL	
FIRST_NAME_BB	varchar(22)	YES		NULL	
LAST_NAME_BB	varchar(22)	YES		NULL	
MIDDLE_NAME_BB	varchar(22)	YES		NULL	
HOME_NUMBER_BB	varchar(15)	YES		NULL	
MOBILE_NUMBER_BB	varchar(15)	YES		NULL	
WORK_NUMBER_BB	varchar(15)	YES		NULL	
PERSONAL_EMAIL_BB	varchar(30)	YES		NULL	
RELATIONSHIP_BB	varchar(20)	YES		NULL	

Result Grid | Filter Rows: Search | Export:

Field	Type	Null	Key	Default	Extra
TEACHER_ID_BB	int	NO	PRI	NULL	
FIRST_NAME_BB	varchar(22)	YES		NULL	
LAST_NAME_BB	varchar(22)	YES		NULL	
MIDDLE_NAME_BB	varchar(22)	YES		NULL	
WORK_EMAIL_BB	varchar(30)	YES		NULL	
PERSONAL_EMAIL_BB	varchar(30)	YES		NULL	
GRADUATED_COLLEGE_BB	varchar(50)	YES		NULL	
DEGREE_AREA_BB	varchar(25)	YES		NULL	

#Task 4 – Add data

```sql
-- Task 4 - Add data by Bethlehem Belay
INSERT INTO TEACHER_BB VALUES
(101, 'Teacher', 'One', 'X', 'teacher1@example.com', 't1@example.com', 'University A', 'MS'),
(102, 'Teacher', 'Two', 'Y', 'teacher2@example.com', 't2@example.com', 'University B', 'MA'),
(103, 'Teacher', 'Three', 'Z', 'teacher3@example.com', 't3@example.com', 'University C', 'PhD'),
(104, 'Teacher', 'Four', 'W', 'teacher4@example.com', 't4@example.com', 'University D', 'BS'),
(105, 'Teacher', 'Five', 'V', 'teacher5@example.com', 't5@example.com', 'University E', 'MS');

INSERT INTO CLASS_BB VALUES
(1, 'ABC01', 'Math Class', 'Blue', 'Room 101', 28, 'Next to the library', 101),
(2, 'DEF02', 'English Class', 'Green', 'Room 202', 27, 'Second floor, west wing', 102),
(3, 'GHI03', 'Science Class', 'Red', 'Room 303', 26, 'Third floor, east wing', 103),
(4, 'JKL04', 'History Class', 'Yellow', 'Room 404', 25, 'Fourth floor, north wing', 104),
(5, 'MNO05', 'Art Class', 'Purple', 'Room 505', 29, 'Fifth floor, south wing', 105);

INSERT INTO STUDENT_BB VALUES
(1, 'John', 'Doe', 'A', 'JD', '2005-05-15', '123 Main St', 'City1', '12345', 'Main St', 1),
(2, 'Jane', 'Smith', 'B', 'JS', '2006-03-22', '456 Oak St', 'City2', '54321', 'Oak St', 2),
(3, 'Bob', 'Johnson', 'C', 'BJ', '2005-07-18', '789 Pine St', 'City3', '67890', 'Pine St', 3),
(4, 'Alice', 'Williams', 'D', 'AW', '2006-01-10', '101 Cedar St', 'City4', '13579', 'Cedar St', 4),
(5, 'Charlie', 'Brown', 'E', 'CB', '2007-04-30', '202 Elm St', 'City5', '24680', 'Elm St', 5);

INSERT INTO PARENT_BB VALUES
(1, 'Bob', 'Doe', 'C', '555-1111', '555-2222', '555-3333', 'bob@example.com', 'Father'),
(2, 'Alice', 'Smith', 'D', '555-4444', '555-5555', '555-6666', 'alice@example.com', 'Mother'),
(3, 'Charlie', 'Johnson', 'E', '555-7777', '555-8888', '555-9999', 'charlie@example.com', 'Father'),
(4, 'Diana', 'Williams', 'F', '555-0000', '555-1234', '555-5678', 'diana@example.com', 'Mother'),
(5, 'Edward', 'Brown', 'G', '555-4321', '555-8765', '555-9876', 'edward@example.com', 'Guardian');

SELECT * FROM CLASS_BB;
SELECT * FROM STUDENT_BB;
SELECT * FROM PARENT_BB;
SELECT * FROM TEACHER_BB;
```

Result Grid | Filter Rows: Search | Edit: | Export/Import:

CLASS_ID_BB	CLASS_CODE_BB	CLASS_NAME_BB	CLASS_COLOR_BB	ROOM_NUMBER_BB	MAX_CAPACITY_BB	DIRECTIONS_BB	TEACHER_ID_BB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

STUDENT_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	NICK_NAME_BB	DOB_BB	ADDRESS_BB	CITY_BB	ZIP_CODE_BB	STREET_BB	CLASS_ID_BB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

PARENT_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	HOME_NUMBER_BB	MOBILE_NUMBER_BB	WORK_NUMBER_BB	PERSONAL_EMAIL_BB	RELATIONSHIP_BB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

TEACHER_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	WORK_EMAIL_BB	PERSONAL_EMAIL_BB	GRADUATED_COLLEGE_BB	DEGREE_AREA_BB
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

CLASS_ID_BB	CLASS_CODE_BB	CLASS_NAME_BB	CLASS_COLOR_BB	ROOM_NUMBER_BB	MAX_CAPACITY_BB	DIRECTIONS_BB	TEACHER_ID_BB
1	ABC01	Math Class	Blue	Room 101	28	Next to the library	101
2	DEF02	English Class	Green	Room 202	27	Second floor, west wing	102
3	GHI03	Science Class	Red	Room 303	26	Third floor, east wing	103
4	JKL04	History Class	Yellow	Room 404	25	Fourth floor, north wing	104
5	MNO05	Art Class	Purple	Room 505	29	Fifth floor, south wing	105
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

STUDENT_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	NICK_NAME_BB	DOB_BB	ADDRESS_BB	CITY_BB	ZIP_CODE_BB	STREET_BB	CLASS_ID_BB
1	John	Doe	A	JD	2005-05-15	123 Main St	City1	12345	Main St	1
2	Jane	Smith	B	JS	2006-03-22	456 Oak St	City2	54321	Oak St	2
3	Bob	Johnson	C	BJ	2005-07-18	789 Pine St	City3	67890	Pine St	3
4	Alice	Williams	D	AW	2006-01-10	101 Cedar St	City4	13579	Cedar St	4
5	Charlie	Brown	E	CB	2007-04-30	202 Elm St	City5	24680	Elm St	5
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

PARENT_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	HOME_NUMBER_BB	MOBILE_NUMBER_BB	WORK_NUMBER_BB	PERSONAL_EMAIL_BB	RELATIONSHIP_BB
1	Bob	Doe	C	555-1111	555-2222	555-3333	bob@example.com	Father
2	Alice	Smith	D	555-4444	555-5555	555-6666	alice@example.com	Mother
3	Charlie	Johnson	E	555-7777	555-8888	555-9999	charlie@example.com	Father
4	Diana	Williams	F	555-0000	555-1234	555-5678	diana@example.com	Mother
5	Edward	Brown	G	555-4321	555-8765	555-9876	edward@example.com	Guardian
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: Search | Edit: | Export/Import:

TEACHER_ID_BB	FIRST_NAME_BB	LAST_NAME_BB	MIDDLE_NAME_BB	WORK_EMAIL_BB	PERSONAL_EMAIL_BB	GRADUATED_COLLEGE_BB	DEGREE_AREA_BB
101	Teacher	One	X	teacher1@example.com	t1@example.com	University A	MS
102	Teacher	Two	Y	teacher2@example.com	t2@example.com	University B	MA
103	Teacher	Three	Z	teacher3@example.com	t3@example.com	University C	PhD
104	Teacher	Four	W	teacher4@example.com	t4@example.com	University D	BS
105	Teacher	Five	V	teacher5@example.com	t5@example.com	University E	MS
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Task – 5 Query data

```sql
#Task 5 — Query the data by Bethlehem Belay
SELECT CONCAT(S.FIRST_NAME_BB, ' ', S.LAST_NAME_BB) AS Student,
       C.CLASS_NAME_BB AS Level,
       C.CLASS_COLOR_BB AS Color,
       C.ROOM_NUMBER_BB AS Room,
       CONCAT(T.FIRST_NAME_BB, ' ', T.LAST_NAME_BB) AS Teacher
FROM STUDENT_BB S
JOIN CLASS_BB C ON S.CLASS_ID_BB = C.CLASS_ID_BB
JOIN TEACHER_BB T ON C.TEACHER_ID_BB = T.TEACHER_ID_BB
ORDER BY S.LAST_NAME_BB, S.FIRST_NAME_BB;

SELECT C.CLASS_COLOR_BB AS Color,
       C.CLASS_NAME_BB AS Level,
       S.FIRST_NAME_BB AS Student_Name,
       S.NICK_NAME_BB AS Nickname
FROM CLASS_BB C
JOIN STUDENT_BB S ON C.CLASS_ID_BB = S.CLASS_ID_BB
ORDER BY C.CLASS_COLOR_BB, C.CLASS_NAME_BB, S.LAST_NAME_BB, S.FIRST_NAME_BB;

SELECT P.FIRST_NAME_BB AS Parent_Name,
       P.LAST_NAME_BB AS Parent_Last_Name,
       P.PERSONAL_EMAIL_BB AS Parent_Email,
       S.FIRST_NAME_BB AS Student_Name,
       C.CLASS_NAME_BB AS Level,
       C.CLASS_COLOR_BB AS Color
FROM PARENT_BB P
JOIN PARENT_BB_STUDENT_BB PS ON P.PARENT_ID_BB = PS.PARENT_ID_BB
JOIN STUDENT_BB S ON PS.STUDENT_ID_BB = S.STUDENT_ID_BB
JOIN CLASS_BB C ON S.CLASS_ID_BB = C.CLASS_ID_BB
ORDER BY P.LAST_NAME_BB, P.FIRST_NAME_BB, S.LAST_NAME_BB, S.FIRST_NAME_BB;

SELECT T.FIRST_NAME_BB AS Teacher_Name,
       T.LAST_NAME_BB AS Teacher_Last_Name,
       S.FIRST_NAME_BB AS Student_Name,
       S.LAST_NAME_BB AS Student_Last_Name,
       P.FIRST_NAME_BB AS Parent_Name,
       P.LAST_NAME_BB AS Parent_Last_Name
FROM TEACHER_BB T
JOIN CLASS_BB C ON T.TEACHER_ID_BB = C.TEACHER_ID_BB
JOIN TEACHER_BB_STUDENT_BB TS ON T.TEACHER_ID_BB = TS.TEACHER_ID_BB
JOIN STUDENT_BB S ON TS.STUDENT_ID_BB = S.STUDENT_ID_BB
JOIN PARENT_BB_STUDENT_BB PS ON S.STUDENT_ID_BB = PS.STUDENT_ID_BB
JOIN PARENT_BB P ON PS.PARENT_ID_BB = P.PARENT_ID_BB
ORDER BY T.LAST_NAME_BB, T.FIRST_NAME_BB, S.LAST_NAME_BB, S.FIRST_NAME_BB, P.LAST_NAME_BB, P.FIRST_NAME_BB;
```

Result Grid | Filter Rows: Search | Export:

Student	Level	Color	Room	Teacher
Charlie Brown	Art Class	Purple	Room 505	Teacher Five
John Doe	Math Class	Blue	Room 101	Teacher One
Bob Johnson	Science Class	Red	Room 303	Teacher Three
Jane Smith	English Class	Green	Room 202	Teacher Two
Alice Williams	History Class	Yellow	Room 404	Teacher Four

Result Grid | Filter Rows: Search | Export:

Color	Level	Student_Name	Nickname
Blue	Math Class	John	JD
Green	English Class	Jane	JS
Purple	Art Class	Charlie	CB
Red	Science Class	Bob	BJ
Yellow	History Class	Alice	AW