Name= Krish Porwal

**Registration Number=** 231080910

# SQL Queries to Create and Manipulate the Data for the Logical Schema:

# SQL-DDL to create tables and constraints for the Logical Schema designed for my ER Data Model=

• To Create Database 'SMJV' and start using the selected database=

```
CREATE DATABASE SMJV;
USE SMJV;
```

• To create table 'hostel\_branch'=

```
CREATE TABLE hostel_branch (
    hostel_id VARCHAR(255) PRIMARY KEY,
    hostel_name VARCHAR(255),
    address VARCHAR(255),
    number_of_rooms INT,
    number_of_students INT
);
```

• To create table 'rooms'=

```
CREATE TABLE rooms (
    room_number INT PRIMARY KEY,
    capacity INT,
    hostel_id VARCHAR(255),
    FOREIGN KEY (hostel_id) REFERENCES hostel_branch(hostel_id)
);
```

• To create table 'employees'=

```
CREATE TABLE employees (
```

```
employee_id VARCHAR(255),
    name VARCHAR(255),
    gender VARCHAR(10),
    phone_number VARCHAR(20),
    hostel_id VARCHAR(255),
    salary DECIMAL(10, 2),
    date_of_join DATE,
    date_of_leave DATE,
    PRIMARY KEY (employee_id, hostel_id),
    FOREIGN KEY (hostel_id) REFERENCES hostel_branch(hostel_id)
);
```

• To create table 'students'=

```
CREATE TABLE students (
    student_id VARCHAR(255),
    name VARCHAR(255),
    address VARCHAR(255),
    age INT,
    course VARCHAR(100),
    student_phone_number VARCHAR(20),
    dependent_phone_number VARCHAR(20),
    date_of_join DATE,
    date_of_leave DATE,
    hostel_id VARCHAR(255),
    PRIMARY KEY (student_id, hostel_id),
    FOREIGN KEY (hostel_id) REFERENCES hostel_branch(hostel_id)
);
```

• To create table 'student\_room\_assignment'=

```
CREATE TABLE student_room_assignment (
    student_id VARCHAR(255),
    hostel_id VARCHAR(255),
    room_number INT,
    FOREIGN KEY (student_id) REFERENCES students(student_id),
    FOREIGN KEY (hostel_id) REFERENCES hostel_branch(hostel_id),
    FOREIGN KEY (room_number) REFERENCES rooms(room_number)
);
```

• To create table 'dependents'=

```
CREATE TABLE dependents (
    student_id VARCHAR(255) PRIMARY KEY,
    dependent_phone_number VARCHAR(20),
    name VARCHAR(50),
    age INT,
    relation VARCHAR(50),
    FOREIGN KEY (student_id) REFERENCES students(student_id)
);
```

• To create table 'fees'=

```
CREATE TABLE fees (
    student_id VARCHAR(255),
    date DATE,
    amount DECIMAL(10, 2),
    paid_till_date DATE(10, 2),
    pending DECIMAL(10, 2),
    mode_of_payment VARCHAR(50),
    PRIMARY KEY (student_id, date),
    FOREIGN KEY (student_id) REFERENCES students(student_id)
);
```

### DML Queries to insert data in each table=

• For table 'hostel branch'=

```
INSERT INTO hostel_branch (hostel_id, hostel_name, address, number_of_rooms,
number_of_students)
VALUES
   ("ANB", "SMJV Andheri", "208, Juhu Ln, Juhu Lane, Yadav Nagar, Andheri
West, Mumbai, Maharashtra 400058", 90, 310),
    ("SAB", "SMJV Sandhurst Road", "99/101, Keshavaji Nayak Rd, Chinchbunder,
Mandvi, Mumbai, Maharashtra 400009", 37, 114),
        ("PUB", "SMJV Pune", "844/A SMJV, Agarkar Rd, next to BMCC Road, Deccan
Gymkhana, Pune, Maharashtra 411004", 130, 360);
```

#	ho	ostel_id 🥤	?	hostel_name	address	number_of_rooms	number_of_students
1		ANB		SMJV Andheri	208, Juhu Ln, Juhu Lane, Yadav Nag	90	310
2		PUB		SMJV Pune	844/A SMJV, Agarkar Rd, next to BM	130	360
3		SAB		SMJV Sandhurst Road	99/101, Keshavaji Nayak Rd, Chinch	37	114

• For table 'employees'=

```
INSERT INTO employees (employee_id, name, gender, phone_number, hostel_id,
salary, date of join, date of leave)
    ("SAB21203653", "VIRENDRA VYAS", "M", "6280350523", "SAB", 600000, "2016-
09-28", "2022-10-05"),
    ("SAB2130214", "HERMANT SINGH", "M", "2963260934", "SAB", 480000, "2017-
05-28", NULL),
    ("SAB2130331", "MOHANLAL PANDEY", "M", "5029951442", "SAB", 360000, "2017-
06-29", NULL),
    ("SAB2130034", "SHAILESH RATHOD", "M", "7904228371", "SAB", 240000, "2014-
03-04", NULL),
    ("SAB21204651", "BAJRANG SALGAR", "M", "4118189938", "SAB", 2000000, "2017-
06-17", NULL),
    ("SAB2130468", "YASHWANT RAO", "M", "4427900484", "SAB", 180000, "2013-06-
29", NULL),
    ("SAB2130469", "NILESH PAWAR", "M", "9383311809", "SAB", 180000, "2015-02-
01", "2023-02-10"),
    ("SAB21205468", "SANJU MAHARAJ", "M", "1194292750", "SAB", 280000, "2016-
11-28", NULL);
```

#	employee_id 💡	name	gender	phone_number	hostel_id 🥊	salary	date_of_join	date_of_leave
1	SAB21203653	VIRENDRA VYAS	M	6280350523	SAB	600,000.0	2016-09-28	2022-10-05
2	SAB21204651	BAJRANG SALGAR	М	4118189938	SAB	200,000.0	2017-06-17	(NULL)
3	SAB21205468	SANJU MAHARAJ	M	1194292750	SAB	280,000.0	2016-11-28	(NULL)
4	SAB2130034	SHAILESH RATHOD	M	7904228371	SAB	240,000.0	2014-03-04	(NULL)
5	SAB2130214	HERMANT SINGH	М	2963260934	SAB	480,000.0	2017-05-28	(NULL)
6	SAB2130331	MOHANLAL PANDEY	M	5029951442	SAB	360,000.0	2017-06-29	(NULL)
7	SAB2130468	YASHWANT RAO	М	4427900484	SAB	180,000.0	2013-06-29	(NULL)
8	SAB2130469	NILESH PAWAR	M	9383311809	SAB	180,000.0	2015-02-01	2023-02-10

#### • For table 'rooms':

```
INSERT INTO rooms (room_number, capacity, hostel_id)
VALUES
    (1, 0, "SAB"),
    (2, 0, "SAB"),
    (3, 3, "SAB"),
    (4, 4, "SAB"),
    (5, 3, "SAB"),
    (6, 4, "SAB"),
    (7, 4, "SAB"),
    (8, 4, "SAB"),
    (9, 4, "SAB"),
    (10,
           4, "SAB"),
          4, "SAB"),
    (11,
          4, "SAB"),
    (12,
           3, "SAB"),
    (13,
    (14,
          0. "SAB").
```

```
(15,
        4,
            "SAB"),
            "SAB"),
(16,
        3,
            "SAB"),
(17,
        4,
            "SAB"),
(18,
        4,
            "SAB"),
(19,
        4,
            "SAB"),
        4,
(20,
            "SAB"),
(21,
        4,
            "SAB"),
(22,
        3,
            "SAB"),
(23,
        3,
            "SAB"),
(24,
        3,
            "SAB"),
(25,
        1,
(26,
        0,
            "SAB"),
(27,
            "SAB"),
        4,
            "SAB"),
(28,
        4,
            "SAB"),
(29,
        4,
            "SAB"),
(30,
        4,
            "SAB"),
(31,
        4,
            "SAB"),
(32,
        4,
            "SAB"),
(33,
        4,
       4,
            "SAB"),
(34,
            "SAB"),
(35,
        4,
(36,
        3,
            "SAB"),
            "SAB");
(37,
        3,
```

#	room_number	P	capacity	hostel_id 🥊
1		1	0	SAB
2		2	0	SAB
3		3	3	SAB
4		4	4	SAB
5		5	3	SAB
6		6	4	SAB
7		7	4	SAB
8		8	4	SAB
9		9	4	SAB
10		10	4	SAB
11		11	4	SAB
12		12	4	SAB
13		13	3	SAB
14		14	0	SAB
15		15	4	SAB
16		16	3	SAB
17		17	4	SAB
18		18	4	SAB
19		19	4	SAB
20		20	4	SAB
21		21	4	SAB
22		22	3	SAB
23		23	3	SAB

#### • For table 'students':

```
INSERT INTO students (student id, name, address, age, course,
student_phone_number, dependent_phone_number, date_of_join, date_of_leave,
hostel id)
VALUES
   ("SAB2300349", "AAGAM AMIT CHHAJED", "INDORE", 18,
"BAF", 5214137572, 9012782755, "2021-10-22", "2026-11-20", "SAB"),
   ("SAB2300387", "AAGAM NILESH JAIN", "PALI", 19, "BFM", 4574875736,
                                        "SAB"),
6416609696, "2023-07-17", "2027-01-12",
   ("SAB2300366", "AYUSH SANDEEP LUNIA", "PALI", 19, "BBI", 5183387145,
8231412084, "2022-01-07", "2024-01-10", "SAB"),
   ("SAB2300348", "ABHISHEK SACHIN GANDHI", "SHAHPUR", 19,
                                            "2024-09-25",
"BAF", 4538600955, 2681111293, "2022-09-16",
   ("SAB22203051", "AKSHAT RANJIT JAIN", "KOLHAPUR", 20,
"BBI", 1276512618, 1389217821, "2023-01-21", "2024-07-26", "SAB"),
   ("SAB22203012", "AKSHAT JAYVANT JAIN", "JODHPUR", 19,
"BTECH", 7931532782, 6341978051, "2023-01-08", "2026-12-18", "SAB"),
   ("SAB22203039", "AKSHAT MOHAN GANDHI", "MALEGAON", 20,
"BAF", 6710939167, 3133947519, "2022-11-07", "2023-12-24", "SAB"),
   ("SAB2300386", "AKSHAT MUKESH DOSHI", "UDAIPUR", 19, "BVOC",
8193739921, 4053719927, "2022-01-22", "2025-07-29",
   ("SAB2300395", "AKSHAT VINOD LUNIA", "BHIWANDI", 20,
"BBA", 2307327025, 5907732785, "2022-08-12", "2025-12-08", "SAB"),
   ("SAB2300364", "ARIHANT MAHENDRA KOTECHA", "NAGPUR", 20, "BCOM",
9141422674, 6104390242, "2022-08-07", "2023-11-29", "SAB"),
   ("SAB22203077", "ARYAN VISHAL KOTHARI", "SURAT",
                                                    18, "COMMERCE",
1154568601, 2132628100, "2022-08-11", "2024-09-25", "SAB"),
   ("SAB2300398", "ATHARVA ASHISH SISODIYA", "VALSAD", 20,
"BAF", 8632351729, 9238034527, "2021-08-21", "2027-03-10", "SAB"),
   ("SAB22203105", "AVI AMIT SHAH", "VALSAD", 19, "BBI", 8164597866,
3391025788, "2021-08-22", "2025-02-18", "SAB"),
   ("SAB2300361", "AYUSH VIJAYKUMAR JAIN",
                                            "BANGALORE",
"BFM", 4344275441, 2087073965, "2021-09-11", "2026-05-30",
   ("SAB22203049", "AYUSH JAYESH JAIN", "JODHPUR", 20,
"CA", 6238186246, 6574603747, "2023-04-12", "2026-12-15",
   ("SAB2300390", "CHAITYA VIKAS JAIN", "MALEGAON", 17, "COMMERCE",
1111439276, 2808025547, "2022-05-31", "2025-03-03",
                                                    "SAB"),
    ("SAB22203026", "CHAYAN ANIL JAIN", "BHIWANDI", 19, "BBA", 2775598877,
9546792927, "2022-02-25", "2025-04-07", "SAB"),
   ("SAB2300001", "DAKSH DINESHKUMAR JAIN", "JALGAON", 21, "BCOM",
2499992151, 6960197174, "2022-02-10", "2024-08-27", "SAB"),
   ("PUB22202070", "DAKSH MANOJKUMAR JAIN", "RATLAM", 20,
                                            "2023-08-09",
"CFA", 1981284522, 6234025566, "2022-11-21",
   ("SAB2300354", "DAKSH PINKESH JAIN", "CHENNAI", 19,
"BBI", 5871998241, 1369227868, "2022-10-09", "2025-08-03", "SAB"),
   ("SAB22203061", "DAKSH VIKAS SISODIYA", "INDORE", 20,
"BFM", 4094062348, 5878974355, "2021-12-20", "2023-07-15", "SAB"),
```

```
("SAB22203106", "DAMAN AMIT OSWAL", "BIJAPUR", 21, "BAF", 8570522394,
3643482237, "2021-07-14", "2024-02-27", "SAB"),
   ("SAB2300378", "DARSHAN AJIT RAIGANDHI", "MALEGAON", 20,
"BTECH", 3929811878, 1453109832, "2023-03-27", "2023-08-20", "SAB"),
                                             "MALKAPUR", 20,
   ("SAB22203036", "DEEPAK INDRAKUMAR JAIN",
"BAF", 9919782858, 1667870091, "2022-04-26", "2023-11-20", "SAB"),
   ("SAB2300397", "DEV HASMUKH KOTHARI", "PUNE", 20, "BFM", 9066545522,
8908939893, "2022-07-24", "2025-04-15", "SAB"),
    ("SAB2300359", "DEV SANCHINBHAI BAGADIYA", "ERODE", 21,
"BBI", 6506499947, 1311979242, "2021-07-30", "2026-09-24", "SAB"),
   ("SAB2300369", "DEVAM RAJESH OSWAL", "BIJAPUR", 19, "BCOM",
7152531779, 2571922077, "2022-02-07", "2024-07-17",
   ("SAB2300002", "DHARMYA BHAVESH SHAH", "BHAVNAGAR", 19,
"MBATECH", 5243031557, 9473565928, "2023-07-06", "2026-08-23", "SAB"),
   ("SAB22203091", "DHRUV NARESH BHOGAR", "NASHIK",
"BBI", 8489360668, 5960139275, "2022-09-28", "2024-01-19",
    ("SAB22203015", "DISHANK PRAVIN HARAN", "JAIPUR", 20,
"BMM", 4623178280, 7560370773, "2022-01-21", "2027-05-22",
   ("SAB2300381", "DIVYA RAJENDRA BAFNA", "AMRAVATI", 20,
"BFM", 5425738888, 8553577765, "2023-04-27",
                                            "2027-04-09",
                                            "AKOLA", 17,
   ("SAB22203048", "DIYANSH NARENDRA JAIN",
"BAF", 6729338054, 8093033924, "2023-03-25",
                                            "2025-04-25",
                                                            "SAB"),
   ("SAB2300373", "GARVIT TAKDEER NAKARIYA", "ROHA", 19,
"BMS", 3970765481, 5278351802, "2023-02-17", "2025-08-04", "SAB"),
   ("SAB2300344", "GAURAV NARENDRA JAIN", "NAGOTNA", 20,
"BTECH", 1915500075, 3833978329, "2021-12-17", "2025-08-02", "SAB"),
   ("SAB22203060", "GAUTAM DEEPAK BAFNA", "RAIPUR", 20,
"BAF", 3303131870, 6424336450, "2022-10-22", "2024-01-01", "SAB"),
   ("SAB22203084", "HARDIK SHAILESH JAIN", "PATNA", 20,
"BBA", 8508636026, 8981684548, "2022-04-15", "2023-09-01", "SAB"),
   ("SAB22203052", "HARSH DIVESH PORWAL", "PALI", 16, "BCOM", 2205556695,
8982663671, "2023-01-17", "2026-11-05", "SAB"),
   ("SAB22203053", "HARSH NARESHKUMAR DAGA", "JODHPUR", 20,
"CFA", 2203312407, 8651543387, "2022-12-11", "2024-03-03",
   ("SAB2300360", "HARSH RAKESH JAIN", "KHANDALA", 20,
'BAF", 2420952656, 1666013254, "2023-01-31", "2026-12-17",
                                                            "SAB"),
   ("SAB22203095", "HARSH SAGAR DOSHI", "NASHIK", 20,
"BFM", 2675411994, 2439787105, "2022-06-15", "2024-06-04",
                                                            "SAB"),
     "SAB2300362", "HARSHAL VINODKUMAR RATHORE", "RATLAM",
'BBI", 7944853758, 6679801461, "2023-02-19", "2024-11-11",
                                                             "SAB"),
   ("SAB22203085", "HARSHIT ROHIT JAIN", "SURAT", 21,
"BBA", 8428360759, 7336869801, "2022-08-14", "2026-09-16",
                                                            "SAB"),
   ("SAB2300351", "HARSHIT SURESHKUMAR SHAH", "BHAVNAGAR",
                                                             20,
                                             "2023-10-15",
"BMM", 3309443524, 2041710061, "2022-12-27",
                                                             "SAB"),
   ("SAB2300370", "HEET MUKESH MODI", "AHMEDABAD", 19,
"BFM", 4310200327, 6225178947, "2022-09-17", "2024-04-15",
   ("SAB22203078", "HEMANK MAHIPAL BAFNA", "RAIPUR", 20,
"BMS", 3537405566, 3970521482, "2021-09-06", "2025-10-17", "SAB"),
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("SAB22203045", "ISH DEEPAK JAIN", "CH. SAMBHAJINAGAR", 17, "BCOM",
3938467381, 3539824441, "2022-08-07", "2026-01-31", "SAB"),
    ("SAB22203094", "JAINAM AMIT GOLECHA", "RAIPUR", 18, "COMMERCE",
5728541625, 8201367388, "2023-03-26", "2024-08-17",
    ("SAB2300377", "JAINAM MANOJKUMAR RUPDA", "PUNE", 20,
"BFM", 6457812260, 7856489554, "2023-07-11", "2025-01-14",
   ("SAB2300367", "JAY SANDEEP JAIN", "INDORE", 20, "BAF", 2080008323,
8264583583, "2022-04-02", "2025-06-11", "SAB"),
    ("SAB2300332", "JEETH AJITH GULECHA", "CHENNAI", 19,
"BBA", 4210046783, 2922091181, "2022-02-08", "2024-02-23",
                                                            "SAB"),
   ("SAB22203017", "KAVYA NARENDRA JAIN", "AKOLA", 18,
"BBA", 1106043586, 2577958071, "2023-03-06", "2025-10-15",
                                                             "SAB"),
    ("SAB22203040", "KETAN ANAND CHORDIYA", "CH. SAMBHAJINAGAR",
                                                                20.
                                                             "SAB"),
"BCOM", 2903672044, 2307785771, "2021-12-26", "2024-12-02",
    ("SAB2300333", "KEWAL PANKAJ BARBOTA", "OOTY", 18, "BBA", 3581499213, 651308, "2023-03-06", "2026-04-28", "SAB"),
9836651308, "2023-03-06", "2026-04-28",
    ("SAB2300374", "KITIK MAHENDRA MEHTA", "NASHIK", 19,
"BBA", 2531504026, 8950394555, "2022-02-07", "2026-09-01", "SAB"),
   ("SAB22203046", "KRISH AMIT SHAH", "KOPARGAON", 20,
"BTECH", 6819801811, 9809473646, "2023-04-19", "2026-12-27", "SAB"),
    ("SAB2300368", "KRISH BHARAT PORWAL", "KOPARGAON", 18,
"BTECH", 5867489327, 1990889604, "2023-08-31", "2026-07-10",
    ("SAB2300345", "KRIYANG MUKESH JAIN", "VAPI", 19, "BBA", 9464299359,
2759724326, "2022-11-09", "2023-12-09", "SAB"),
    ("SAB2300331", "KUNAL JAYANTI KANKARIYA", "SURAT", 20,
"BSC", 3634625152, 6050892207, "2022-03-03",
                                             "2024-06-02",
    ("SAB22203083", "KUSHAL PAVANKUMAR SANKLECHA", "BHIWANDI", 20,
"BCA", 1992081717, 4551608999, "2022-11-08", "2026-07-01", "SAB"),
   ("SAB2300376", "LAVESH SANTOSH JAIN", "ROHA", 18, "CA", 3314594411,
1857384799, "2022-08-17", "2023-08-23", "SAB"),
    ("SAB22203004", "MANAS RAMESHKUMAR SANKLECHA", "BHIWANDI", 20,
"CFA", 8020778628, 4564065509, "2022-10-22", "2024-01-15", "SAB"),
   ("SAB22203016", "MANTHAN RUPESH JAIN", "NAGOTNA", 17,
"BCA", 1387694805, 6170934569, "2023-05-28", "2026-11-08", "SAB"),
    ("SAB2300357", "MAYAN AMITKUMAR JAIN", "ROHA", 17, "BCA", 6344586898,
4213320442, "2022-01-18", "2027-02-21", "SAB"),
    ("SAB2300350", "MAYUR KRITIKUMAR JAIN",
                                             "KARJAT", 27,
"LLB", 5713435079, 7958204319, "2022-08-19", "2025-10-06",
     "SAB2300365", "MEHUL MAHAVIR JAIN", "CHENNAI", 19,
"BAF", 7457879664, 5902517758, "2023-05-24", "2026-02-03",
   ("SAB2300346", "MOHAK ANANDRAJ KANKARIYA", "BHIWANDI", 20,
"BFM", 9120079249, 8430545337, "2021-08-13", "2026-06-27",
    ("SAB22203002", "MOHIT SANJAY BOTRA", "NAGPUR", 19,
"BFM", 6794237750, 5710208104, "2022-09-18", "2026-04-13", "SAB"),
   ("SAB2300371", "MOKSH HEMANT JAIN", "ROHA", 20, "BBA", 5565661498,
2641172357, "2021-07-20", "2024-12-03", "SAB"),
   ("SAB22203003", "NAMAN MANOJKUMAR JAIN", "CHENNAI", 19,
"BMM", 6376970462, 9037417829, "2023-03-03", "2024-07-02",
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("SAB2300342", "NAMAN VINOD JAIN", "BANGALORE", 20,
"BAF", 1828472037, 5709825523, "2022-07-20", "2024-07-06", "SAB"),
   ("SAB22203093", "NEIL BHAVESH JAIN", "ROHA", 16, "BBI", 9770452653,
9370052176, "2022-02-23", "2027-05-12", "SAB"),
                                        "ROHA", 20, "BBI", 5468347320,
   ("SAB2300003", "NITYAM DILIP JAIN",
                                        "SAB"),
7525024848, "2023-03-31", "2023-05-16",
   ("SAB22203033", "OM PAVANKUMAR SHETIYA",
                                            "00TY", 20,
"BBI", 1508628640, 8028056189, "2023-06-25", "2026-07-14",
    ("SAB2300392", "PARAM SAGAR SHAH", "BHIWANDI", 20, "BCOM", 3718666249,
1034253913, "2021-10-17", "2025-04-30", "SAB"),
                                                        17,
    ("SAB22203028", "PARTH VISHALKUMAR SHAH", "SANGLI",
                                            "2027-04-16",
"BBA", 5081292842, 9524134213, "2022-03-17",
                                                            "SAB"),
    ("SAB2300393", "PEYUSH KAMLESH BHANSOLI",
                                            "BHAVNAGAR",
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    ("SAB22203073", "YUG MAHESH JAIN", "ROHA", 17, "BTECH", 1458062309,
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("SAB2300394", "YUG VIKRAM JAIN", "MALEGAON", 18, "COMMERCE", 4634997436, 5750066324, "2022-12-31", "2023-08-18", "SAB");
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1	PUB21100420	YASH VIJAY KHATOR	BHIWANDI	23	BCOM	8677255591	7446380546	2022-06-17	2025-07-14
2	PUB22202070	DAKSH MANOJKUMAR JAIN	RATLAM	20	CFA	1981284522	6234025566	2022-11-21	2023-08-09
3	SAB22203002	MOHIT SANJAY BOTRA	NAGPUR	19	BFM	6794237750	5710208104	2022-09-18	2026-04-13
4	SAB22203003	NAMAN MANOJKUMAR JAIN	CHENNAI	19	BMM	6376970462	9037417829	2023-03-03	2024-07-02
5	SAB22203004	MANAS RAMESHKUMAR SANKLECHA	BHIWANDI	20	CFA	8020778628	4564065509	2022-10-22	2024-01-15
6	SAB22203012	AKSHAT JAYVANT JAIN	JODHPUR	19	BTECH	7931532782	6341978051	2023-01-08	2026-12-18
7	SAB22203015	DISHANK PRAVIN HARAN	JAIPUR	20	BMM	4623178280	7560370773	2022-01-21	2027-05-22
8	SAB22203016	MANTHAN RUPESH JAIN	NAGOTNA	17	BCA	1387694805	6170934569	2023-05-28	2026-11-08
9	SAB22203017	KAVYA NARENDRA JAIN	AKOLA	18	BBA	1106043586	2577958071	2023-03-06	2025-10-15
10	SAB22203020	VARUN MOHANLAL JAIN	OOTY	20	BAF	4155038378	9472019070	2023-02-09	2026-05-09
11	SAB22203025	RAJ YOGESH SHAH	PUNE	22	BCOM	2626140250	1302589357	2022-09-11	2025-07-03
12	SAB22203026	CHAYAN ANIL JAIN	BHIWANDI	19	BBA	2775598877	9546792927	2022-02-25	2025-04-07
13	SAB22203028	PARTH VISHALKUMAR SHAH	SANGLI	17	BBA	5081292842	9524134213	2022-03-17	2027-04-16
14	SAB22203033	OM PAVANKUMAR SHETIYA	OOTY	20	BBI	1508628640	8028056189	2023-06-25	2026-07-14
15	SAB22203036	DEEPAK INDRAKUMAR JAIN	MALKAPUR	20	BAF	9919782858	1667870091	2022-04-26	2023-11-20
16	SAB22203039	AKSHAT MOHAN GANDHI	MALEGAON	20	BAF	6710939167	3133947519	2022-11-07	2023-12-24
17	SAB22203040	KETAN ANAND CHORDIYA	CH. SAMBHAJINAGAR	20	BCOM	2903672044	2307785771	2021-12-26	2024-12-02
18	SAB22203045	ISH DEEPAK JAIN	CH. SAMBHAJINAGAR	17	BCOM	3938467381	3539824441	2022-08-07	2026-01-31
19	SAB22203046	KRISH AMIT SHAH	KOPARGAON	20	BTECH	6819801811	9809473646	2023-04-19	2026-12-27
20	SAB22203048	DIYANSH NARENDRA JAIN	AKOLA	17	BAF	6729338054	8093033924	2023-03-25	2025-04-25
21	SAB22203049	AYUSH JAYESH JAIN	JODHPUR	20	CA	6238186246	6574603747	2023-04-12	2026-12-15
22	SAB22203051	AKSHAT RANJIT JAIN	KOLHAPUR	20	BBI	1276512618	1389217821	2023-01-21	2024-07-26

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3	SAB2300366	SAB	12
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6	SAB22203012	SAB	13
7	SAB22203039	SAB	19
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9	SAB2300395	SAB	24
10	SAB2300364	SAB	21
11	SAB22203077	SAB	10
12	SAB2300398	SAB	37
13	SAB22203105	SAB	27
14	SAB2300361	SAB	4

## • For table 'dependents'=

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INSERT INTO dependents (student_id, dependent_phone_number, name, age, relation)
    ("SAB2300349", 9012782755, "AMIT CHHAJED", 41, "FATHER"),
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    ("SAB2300366", 8231412084, "SANDEEP LUNIA", 53, "FATHER"),
    ("SAB2200348", 2681111293, "SACHIN GANDHI", 65, "FATHER"), ("SAB22203051", 1389217821, "RANJIT JAIN", 51, "FATHER"),
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     ("SAB22203012", 6341978051, "JAYVANT JAIN", 49, "FATHER"),
     ("SAB22203039", 3133947519, "MOHAN GANDHI", 63, "FATHER"),
     ("SAB2300386", 4053719927, "MUKESH DOSHI", 38, "FATHER"),
     ("SAB2300395", 5907732785, "VINOD LUNIA", 40, "FATHER"),
     ("SAB2300364", 6104390242, "MAHENDRA KOTECHA", 37, "FATHER"), ("SAB22203077", 2132628100, "VISHAL KOTHARI", 41, "FATHER"),
     ("SAB2300398", 9238034527, "ASHISH SISODIYA", 37, "FATHER"), ("SAB22203105", 3391025788, "AMIT SHAH", 42, "FATHER"),
     ("SAB2300361", 2087073965, "VIJAYKUMAR JAIN", 58, "FATHER"),
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     ("SAB2300390", 2808025547, "VIKAS JAIN", 39, "FATHER"), ("SAB22203026", 9546792927, "ANIL JAIN", 63, "FATHER"),
     ("SAB2300001", 6960197174, "DINESHKUMAR JAIN", 55, "FATHER"),
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"SAB2300359", 1311979242, "SANCHINBHAI BAGADIYA", 37, "FATHER"),
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("SAB22203094", 8201367388, "AMIT GOLECHA", 35, "FATHER"),
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2	PUB22202070	6234025566	DAKSH MANOJKUMAR JAINMAN	35	FATHER
3	SAB22203002	5710208104	MOHIT SANJAY BOTRASANJAY B	49	FATHER
4	SAB22203003	9037417829	NAMAN MANOJKUMAR JAINMAN	35	FATHER
5	SAB22203004	4564065509	MANAS RAMESHKUMAR SANKLECH	38	FATHER
6	SAB22203012	6341978051	AKSHAT JAYVANT JAINJAYVANT	49	FATHER
7	SAB22203015	7560370773	DISHANK PRAVIN HARANPRAVIN	44	FATHER
8	SAB22203016	6170934569	MANTHAN RUPESH JAINRUPESH	41	FATHER
9	SAB22203017	2577958071	KAVYA NARENDRA JAINNAREND	43	FATHER
10	SAB22203020	9472019070	VARUN MOHANLAL JAINMOHANL	61	FATHER
11	SAB22203025	1302589357	RAJ YOGESH SHAHYOGESH SHAH	47	FATHER
12	SAB22203026	9546792927	CHAYAN ANIL JAINANIL JAIN	63	FATHER
13	SAB22203028	9524134213	PARTH VISHALKUMAR SHAHVISH	62	FATHER
14	SAB22203033	8028056189	OM PAVANKUMAR SHETIYAPAVA	50	FATHER

#### • For table 'fees'=

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2	PUB22202070	2024-01-29	80,000	2024-01-29	0.0	NFT
3	SAB22203002	2023-12-26	80,000	2023-12-26	0.0	NFT
4	SAB22203003	2024-01-06	80,000	2024-01-06	0.0	NFT
5	SAB22203004	2023-12-29	80,000	2023-12-29	0.0	NFT
6	SAB22203012	2024-01-15	80,000	2024-01-15	0.0	NFT
7	SAB22203015	2023-12-21	80,000	2023-12-21	0.0	NFT
8	SAB22203016	2024-01-09	80,000	2024-01-09	0.0	NFT
9	SAB22203017	2024-01-06	80,000	2024-01-06	0.0	NFT
10	SAB22203020	2024-01-26	80,000	2024-01-26	0.0	NFT
11	SAB22203025	2023-12-23	80,000	2023-12-23	0.0	NFT
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### **DML Queries to update data=**

### 1. Increase the capacity of a room=

```
UPDATE Rooms
SET capacity = capacity + 5
WHERE room_number = '21';
20   UPDATE Rooms   SET capacity = capacity + 5   WHERE room_number = '21';
21   /* Affected rows: 1   Found rows: 0   Warnings: 0   Duration for 1   query: 0.016 sec. */
```

### 2. Change the phone number of an employee=

### 3. Modify the date of join of an employee=

# 4. Update the dependent's age=

## 5. Update the mode of payment for fees:=

# SQL-DML exploring Complex queries, Aggregate functions like Avg, group, sort etc to manipulate data for the ER Data Model=

1. Calculate the average salary of employees in each hostel=

```
SELECT hostel_id, AVG(salary) AS avg_salary

FROM Employees

GROUP BY hostel_id;

Employees (1r × 2c)

# hostel_id  avg_salary

1 SAB 315,000.0
```

#### 2. Count the number of students in each room=

```
SELECT r.room_number, COUNT(sra.student_id) AS num_students
FROM Rooms r
LEFT JOIN Student_room_assignment sra ON r.room_number = sra.room_number
GROUP BY r.room_number;
```

Ro	oms (37r × 2c)	1111 - 1111/11 - 1111/11 - 1111
#	room_number 💡	num_students
1	1	0
2	2	0
3	3	3
4	4	4
5	5	2
6	6	4
7	7	4
8	8	4
9	9	4
10	10	4
11	11	4
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	

# 3. Find the total pending fees for each hostel=

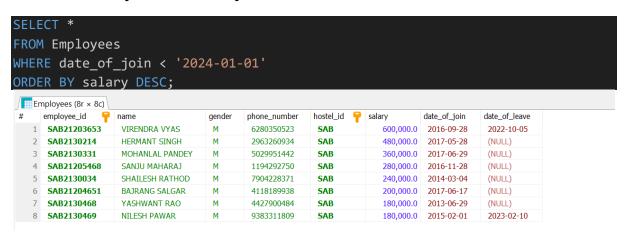
```
SELECT s.hostel_id, SUM(f.pending) AS total_pending_fees
FROM Students s
INNER JOIN Fees f ON s.student_id = f.student_id
GROUP BY s.hostel_id;
```

```
Students (1r × 2c)

# hostel_id total_pending_fees

1 SAB 0.0
```

4. List the employees who joined before a certain date and sort them by their salary=



5. Find the average age of dependents for each student=

```
SELECT s.student_id, AVG(d.age) AS avg_dependent_age
FROM Students s
LEFT JOIN Dependents d ON s.student_id = d.student_id
GROUP BY s.student_id;
 Students (113r × 2c)
         student_id
                           avg_dependent_age
          PUB21100420
                                            59.0
           PUB22202070
                                           35.0
           SAB22203002 dependent_age
dent_id, \frac{2}{3}AV
                                            49.0
           SAB22203003
ependents o
                         id = d.student id
           SAB22203004
                                            38.0
          SAB22203012
                                            49.0
          SAB22203015
                                            44.0
       8
          SAB22203016
                                            41.0
       9
          SAB22203017
      10
          SAB22203020
                                            61.0
      11
          SAB22203025
                                            47.0
      12
          SAB22203026
                                            63.0
      13
          SAB22203028
                                            62.0
           SAB22203033
      15
          SAB22203036
                                            60.0
      16
          SAB22203039
                                            63.0
      17
          SAB22203040
                                            60.0
      18
          SAB22203045
                                            43.0
      19
          SAB22203046
                                            53.0
          SAB22203048
                                            51.0
      20
```

6. Count the number of rooms in each hostel and sort them by the number of rooms in descending order=

```
SELECT hostel_id, COUNT(room_number) AS num_rooms

FROM Rooms

GROUP BY hostel_id

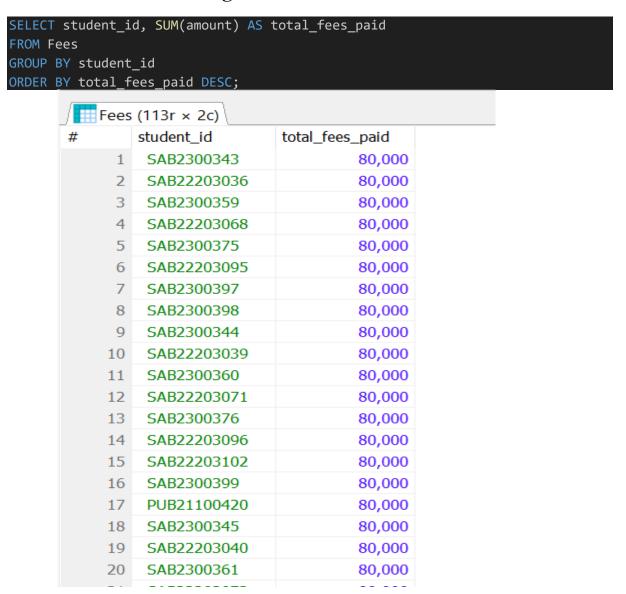
ORDER BY num_rooms DESC;

Rooms (1r × 2c)

# hostel_id num_rooms

1 SAB 37
```

7. Find the total amount of fees paid by each student and sort them in descending order=



### 8. Find the youngest student in each hostel=

```
SELECT hostel_id, MIN(age) AS min_age
FROM Students
GROUP BY hostel_id;

Students (1r × 2c)

# hostel_id min_age
1 SAB 16
```

### 9. List the students who have not paid any fees yet=

```
SELECT s.student_id, s.name

FROM Students s

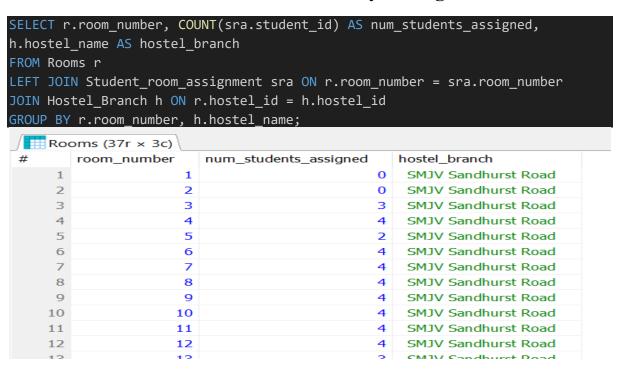
LEFT JOIN Fees f ON s.student_id = f.student_id

WHERE f.student_id IS NULL;

Students (Or × 2c)

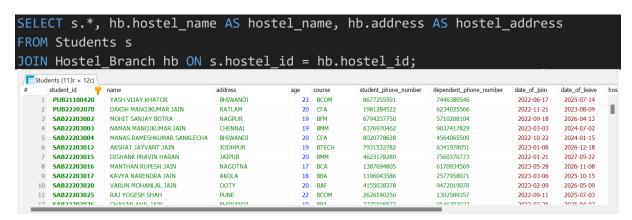
# student_id  name
```

# 10. List all rooms along with the number of students assigned to each room and the hostel branch they belong to=

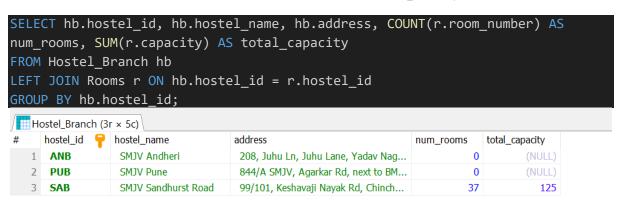


# SQL-DML exploring Nested queries, Join Queries, along with the complex queries, Aggregate functions etc to manipulate data for the ER Data Model=

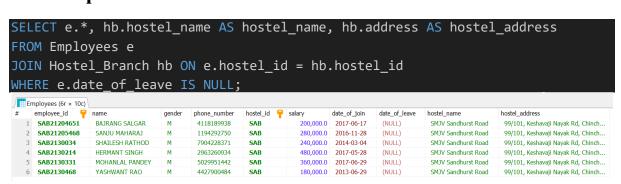
1. List all students along with their hostel details=



2. Find the number of rooms and total capacity for each hostel=



3. List all employees who are currently working and their respective hostels=



4. Find the students who have dependent(s) and list their dependents=

```
SELECT s.*, d.name AS dependent name, d.relation
FROM Students s
JOIN Dependents d ON s.student_id = d.student_id;
 Students (113r × 12c)
       student id
                                                    address
                                                                              course
                                                                                          student phone number
                                                                                                              dependent phone number
                                                                                                                                    date of join
        PUB21100420
                        YASH VIJAY KHATOR
                                                                                                               7446380546
        PUB22202070
                       DAKSH MANOIKUMAR 1AIN
                                                     RATI AM
                                                                           20 CFA
                                                                                           1981284522
                                                                                                               6234025566
                                                                                                                                     2022-11-21
                                                                                                                                                 2023-08-09
                       MOHIT SANJAY BOTRA
                                                                                           6794237750
        SAB22203002
                                                     NAGPUR
                                                                              BFM
                                                                                                               5710208104
                                                                                                                                     2022-09-18
                                                                                                                                                 2026-04-13
        SAB22203003
                        NAMAN MANOJKUMAR JAIN
                                                                                           6376970462
                                                     CHENNAI
                                                                              ВММ
                                                                                                               9037417829
                                                                                                                                     2023-03-03
                                                                                                                                                 2024-07-02
        SAB22203004
                       MANAS RAMESHKUMAR SANKLECHA
                                                     BHIWANDI
                                                                              CFA
                                                                                           8020778628
                                                                                                               4564065509
                                                                                                                                     2022-10-22
                                                                                                                                                 2024-01-15
                                                                                                                                     2023-01-08
        SAB22203012
                        AKSHAT JAYVANT JAIN
                                                     JODHPUR
                                                                              BTECH
                                                                                           7931532782
                                                                                                               6341978051
                                                                                                                                                 2026-12-18
        SAR22203015
                       DISHANK DRAVIN HARAN
                                                     1ATDLIR
                                                                              RMM
                                                                                           4623178280
                                                                                                               7560370773
                                                                                                                                     2022-01-21
                                                                                                                                                 2027-05-22
        SAB22203016
                       MANTHAN RUPESH JAIN
                                                     NAGOTNA
                                                                              BCA
                                                                                           1387694805
                                                                                                               6170934569
                                                                                                                                     2023-05-28
                                                                                                                                                 2026-11-08
        SAB22203017
                        KAVYA NARENDRA JAIN
                                                     AKOLA
                                                                                           1106043586
                                                                                                               2577958071
                                                                                                                                     2023-03-06
        SAB22203020
                       VARUN MOHANI AL 1ATN
                                                     OOTY
                                                                              BAF
                                                                                           4155038378
                                                                                                               9472019070
                                                                                                                                     2023-02-09
                                                                                                                                                 2026-05-09
                                                                           22 BCOM
                                                                                                               1302589357
        SAB22203025
                       RAJ YOGESH SHAH
                                                     PUNE
                                                                                           2626140250
                                                                                                                                     2022-09-11
                                                                                                                                                 2025-07-03
```

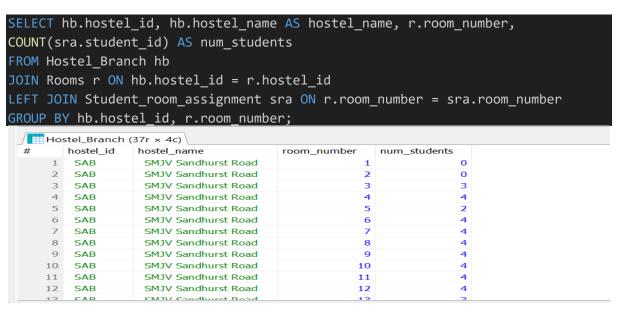
5. Calculate the total fees paid by male and female students separately=

```
SELECT SUM(f.amount) AS total_fees_paid
FROM Students s
JOIN Fees f ON s.student_id = f.student_id;

Students (1r × 1c)

# total_fees_paid
1 9,040,000
```

6. List the rooms with their respective hostel details and the number of students assigned to each room=



7. Find the average age of students in ach hostel=

```
SELECT hb.hostel_id, AVG(s.age) AS avg_age

FROM Hostel_Branch hb

JOIN Students s ON hb.hostel_id = s.hostel_id

GROUP BY hb.hostel_id;

Hostel_Branch (1r × 2c)

# hostel_id avg_age

1 SAB 19.5044
```

8. List the students along with the total pending fees for each student=



9. Find the employee with the highest salary in each hostel=

```
SELECT e.*
FROM Employees e
JOIN (
     SELECT hostel id, MAX(salary) AS max salary
     FROM Employees
     GROUP BY hostel id
) AS max_salary_per_hostel ON e.hostel_id = max_salary_per_hostel.hostel_id
AND e.salary = max_salary_per_hostel.max_salary;
 Employees (1r × 8c)
                                              hostel_id 💡 salary
 #
    employee_id
             P name
                              gender
                                    phone_number
                                                                 date_of_join
                                                                           date of leave
  1 SAB21203653
                VIRENDRA VYAS
                                    6280350523
                                               SAB
                                                          600,000.0 2016-09-28
                                                                           2022-10-05
```

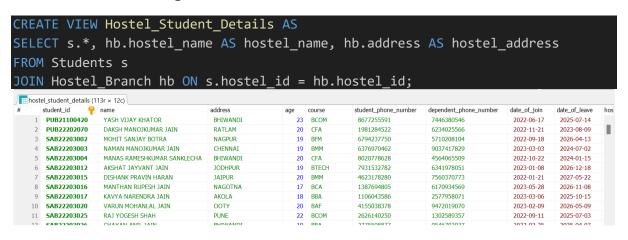
10. List the students who are assigned to a room with a capacity greater than the average room capacity in their hostel=

```
SELECT s.*
FROM Students s
JOIN Student room assignment sra ON s.student id = sra.student id
JOIN Rooms r ON sra.room number = r.room number AND sra.hostel id =
r.hostel id
JOIN (
      SELECT hostel id, AVG(capacity) AS avg capacity
      FROM Rooms
      GROUP BY hostel id
) AS avg_capacity_per_hostel ON r.hostel_id =
avg_capacity_per_hostel.hostel_id
WHERE r.capacity > avg capacity per hostel.avg capacity;
 Students (88r × 10c)
      student_id
                                            address
                P name
                                                            age
                                                                 course
                                                                            student_phone_number
                                                                                            dependent_phone_number
                                                                                                              date_of_join
                                                                                                                         date_of_leave
                    AAGAM NILESH JAIN
      SAB2300387
                                                                                             6416609696
                                                                                                               2023-07-17
                                                                                                                         2027-01-12
                                                               19 BBI
       SAB2300366
                    AYUSH SANDEEP LUNIA
                                            PALI
                                                                            5183387145
                                                                                             8231412084
                                                                                                               2022-01-07
                                                                                                                          2024-01-10
       SAB2300348
                    ABHISHEK SACHIN GANDHI
                                            SHAHPUR
       SAB22203051
                    AKSHAT RANJIT JAIN
                                            KOLHAPUR
                                                                 BBI
                                                                            1276512618
                                                                                             1389217821
                                                                                                               2023-01-21
                                                                                                                          2024-07-26
       SAB22203039
                    AKSHAT MOHAN GANDHI
                                            MALEGAON
                                                                            6710939167
                                                                                             3133947519
                                                                                                               2022-11-07
                                                                                                                          2023-12-24
       SAB2300364
                    ARTHANT MAHENDRA KOTECHA
                                            NAGPUR
                                                               20
                                                                 BCOM
                                                                            9141422674
                                                                                             6104390242
                                                                                                               2022-08-07
                                                                                                                          2023-11-29
       SAB22203077
                    ARYAN VISHAL KOTHARI
                                            SURAT
                                                                 COMMERCE
                                                                            1154568601
                                                                                             2132628100
                                                                                                               2022-08-11
                                                                                                                          2024-09-25
                                                                                                               2021-08-22
       SAB22203105
                    AVI AMIT SHAH
                                            VALSAD
                                                               19
                                                                  BBI
                                                                            8164597866
                                                                                             3391025788
                                                                                                                          2025-02-18
                    AYUSH VIJAYKUMAR JAIN
                                                                            4344275441
       SAB2300361
                                            BANGALORE
                                                               20
                                                                 BFM
                                                                                             2087073965
                                                                                                               2021-09-11
                                                                                                                          2026-05-30
       SAB2300390
                                                                  COMMERCE
                    CHAITYA VIKAS JAIN
                                            MALEGAON
                                                                                             2808025547
       SAB22203026
                   CHAYAN ANTI JAIN
                                            BHTWANDT
                                                               19
                                                                 BBA
                                                                            2775598877
                                                                                             9546792927
                                                                                                               2022-02-25
                                                                                                                         2025-04-07
```

### <u>Views=</u>

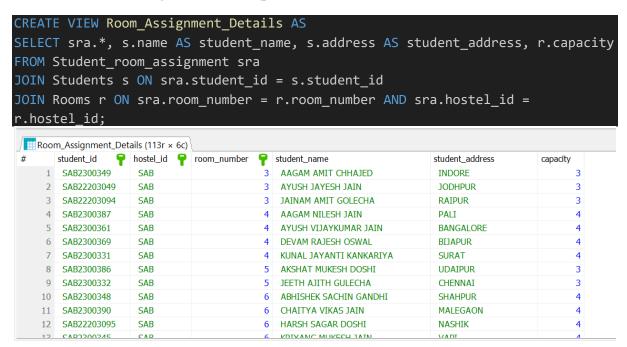
### 1. Hostel Student Details=

This view combines information from the **Students** and **Hostel\_Branch** tables to provide a comprehensive view of students along with their hostel details.



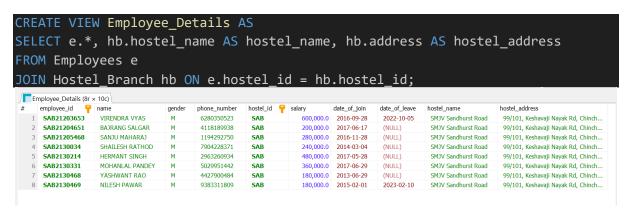
### 2. Room Assignment Details=

This view joins the **Student\_room\_assignment**, **Students**, and **Rooms** tables to display the assignment details of students to rooms along with their personal information.



# 3. Employee\_Details=

This view combines information from the **Employees** and **Hostel\_Branch** tables to provide details of employees along with their respective hostel information.



### 4. Dependent Student Details=

This view joins the **Dependents** and **Students** tables to display information about students along with their dependents.



## 5. Student\_Fee\_Details=

This view combines data from the **Students** and **Fees** tables to show details of students along with their fee payment information.

