

# DATABASE SCRIPTING:

CREATE AND ALTER:

```
CREATE DATABASE housedb;

use housedb;
CREATE TABLE developers(
    sno INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    DevName VARCHAR(1000)
);
CREATE TABLE developementName(
    sno_dn INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    DevName_id INT,
    FOREIGN KEY(DevName_id) REFERENCES developers(sno)
);
ALTER TABLE developementName ADD development VARCHAR(1200);
CREATE TABLE Address(
    sno_ad INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    address VARCHAR(1000),
    Development_id INT,
    FOREIGN KEY (Development_id) REFERENCES developementName(sno_dn)
);
CREATE TABLE PostalCode(
    sno_pc INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    zipCode VARCHAR(100),
    address_sno INT,
    FOREIGN KEY (address_sno) REFERENCES Address(sno_ad)
);
CREATE TABLE District(
    sno INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    D_code VARCHAR(100),
    postalCode_id INT,
    FOREIGN KEY(postalCode_id) REFERENCES PostalCode(sno_pc)
);
CREATE TABLE TypeOfHouse(
    sno_tp INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    typeOfhouse VARCHAR(1000),
    developementName_th INT,
    FOREIGN KEY(developementName_th) REFERENCES developementName(sno_dn)
);
CREATE TABLE Units(
    sno_u INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    no_of_units INT,
    units_sno INT,
    FOREIGN KEY(units_sno) REFERENCES developementName(sno_dn)
);
CREATE TABLE Floors(
    sno_f INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    no_of_floors INT,
    floors_sno INT,
    FOREIGN KEY(floors_sno) REFERENCES Units(sno_u)
);
CREATE TABLE Tenure(
    sno_tenure INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    tenure_details VARCHAR(100),
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    typeOfHouse INT,
    FOREIGN KEY(typeOfHouse) REFERENCES developmentName(sno_dn)
);
CREATE TABLE Facilities(
    sno_fac INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    facilities_details VARCHAR(2000),
    facilities INT,
    FOREIGN KEY(facilities) REFERENCES developmentName(sno_dn)
);
CREATE TABLE Amenities(
    sno_amenities INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    amenities_details VARCHAR(2000),
    Amenities_val INT,
    FOREIGN KEY(Amenities_val) REFERENCES developmentName(sno_dn)
);

```

#### INSERT AND UPDATE:

```

-- INSERT INTO developers(DepName) VALUES ('Yi Kai Development Pte Ltd'),('Bonsel
Development Pte Ltd'),('Hong Leong Holdings'),('Novelty Group'),('Tripartite Developers Pte
Ltd'),('Faber Union LTD'),('Tuan Huat Investment Co. Pte Ltd'),('Sustained Land Pte Ltd'),
('Springlife JLB Pte Ltd'),('TAI CHUAN DEVELOPMENT (PTE) LTD');

-- INSERT INTO developmentName(development,DevName_id) VALUES ('Aston Residence',
1),('Avila Gardens',2),('Avila Terrace',2),('Casa Pasir Ris',3),('Changi Gardens',4),('Changi
Heights',4),('Edelweiss Park Condo',5),('Hedges Park Condominium',6),('JLB Residences',7),
('Loyang Court',8),('Loyang Terrace',8),('Riz Haven',9),('Sandy Palm',10);

-- INSERT INTO Address(address,Development_id) VALUES ('0 Jalan Loyang Besar',1),('9 Flora
Road',2),('0 Mariam Way',3),('2 Flora Road',4),('152 Mariam Way',5),('32 Jalan Mariam',6),('205
Jalan Loyang Besar',7),('0 Loyang Place',8),('177 Jalan Loyang Besar',9),('43 Jalan Loyang
Besar',10),('0 Jalan Loyang Besar',11),('207 - 207V Jalan Loyang Besar',12),('0 Loyang Rise',
13);
-- INSERT INTO PostalCode(zipCode,address_sno) VALUES ('509000',1),('509737',2),
('508000',3),('509725',4),('507025',5),('508000',6),('506291',7),('500000',8),('507025',9),
('508000',10),('507875',11),('509432',12),('507875',13);
-- INSERT INTO District(D_code,postalCode_id) VALUES ('17',1),('17',2),('17',3),('17',4),('17',5),
('17',6),('17',7),('17',8),('17',9),('17',10),('17',11),('17',12),('17',13);
-- INSERT INTO TypeOfHouse(typeOfHouse,developmentName_th) VALUES ('Detached
House',1),('Condominium',2),('Terraced House',3),('Condominium',4),('Apartment',5),
('Condominium',6),('Condominium',7),('Apartment',8),('Terraced House',9),('Cluster House',10),
('Terraced House',11),('Semi-Detached House',12),('Terraced House',13);
-- INSERT INTO Units(no_of_units,units_sno) VALUES (28,1),(347,2),(112,3),(145,4),(56,5),
(167,6),(168,7),(289,8),(125,9),(153,10),(65,11),(87,12),(99,13);

-- INSERT INTO Floors(no_of_floors,floors_sno) VALUES (28,1),(347,2),(112,3),(316,4),(45,5),
(78,6),(528,7),(28,8),(475,9),(269,10),(430,11),(125,12),(90,13);
-- INSERT INTO Tenure(tenure_details,typeOfHouse) VALUES ('Unknown Tenure',1),('Freehold',
2),('Freehold',3),('999-Year Leasehold',4),('Freehold',5),('Freehold',6),('999-Year Leasehold',7),
('999-Year Leasehold',8),('Freehold',9),('Freehold',10),('999-Year Leasehold',11),('Freehold',12),
('Freehold',13);

```

```
-- INSERT INTO Facilities(facilities_details,facilities) VALUES ('Jacuzzi ;Swimming pool',1),
('BBQ pits;Pool Deck;Playground ;Spa pool;Squash court;Swimming pool ;Tennis
courts;Wading pool',2),
-- ('BBQ pits;Covered car park ;Clubhouse;Gymnasium room;Playground ;Sauna ;24 hours
security ;Squash court;Swimming pool ;Tennis courts;Wading pool ;',4),('BBQ pits;Covered car
park ;Clubhouse;Gymnasium room;Playground ;Sauna ;24 hours security ;Squash
court;Swimming pool ;Tennis courts;Wading pool ;',5),('BBQ pits;Covered car park ;24 hours
security ;Swimming pool ;',6),('Covered car park ;',9);
```

```
-- INSERT INTO Amenities(amenities_details,Amenities_val) VALUES ('Azalea Park Condo is
located close to shopping centres like Loyang Point and Tampines Mart. Educational
institutions located nearby include White Sands Primary School and East Spring Primary
School.',3),('There is a bus service available near the development. Several schools and eating
establishments are a short walk or drive away. It is also close to White Sands shopping centre,
Tampines Mart and Loyang Point where there is a host of amenities such as shops,
supermarkets, and restaurants.Estella Gardens is near recreational facilities such as Tampines
Tree Garden and Tampines Leisure Park.For vehicle owners, it takes 20-25 minutes to get to
the business hub and the vibrant Orchard Road shopping district, via Pan Island Expressway.
',6),('Loyang Gardens is located just minutes drive away
from White Sands, where a host of amenities are readily available, such as retail outlets,
supermarkets, restaurants and eating establishments, banks, and other entertainment facilities.
There are schools located in the vicinity, such as Casuarina Primary School and Hai Sing
Catholic. Recreational facilities nearby include the Downtown East and Escape Theme Park
which is just a short drive away. For vehicle owners, travelling to the business hub from Loyang
Gardens takes just above 25 minutes, via Pan- Island Expressway.
',10);
```

#### REPORT #1:

```
SELECT developement,address,DevName FROM developementName INNER JOIN
Address ON developementName.sno_dn = Address.Development_id INNER JOIN developers
ON developementName.DevName_id = developers.sno;
```

development	address	DevName
Aston Residence	0 Jalan Loyang Besar	Yi Kai Development Pte Ltd
Avila Gardens	9 Flora Road	Bonsel Development Pte Ltd
Avila Terrace	0 Mariam Way	Bonsel Development Pte Ltd
Casa Pasir Ris	2 Flora Road	Hong Leong Holdings
Changi Gardens	152 Mariam Way	Novelty Group
Changi Heights	32 Jalan Mariam	Novelty Group
Edelweiss Park Condo	205 Jalan Loyang Besar	Tripartite Developers Pte Ltd
Hedges Park Condominium	0 Loyang Place	Faber Union LTD
JLB Residences	177 Jalan Loyang Besar	Tuan Huat Investment Co. Pte Ltd
Loyang Court	43 Jalan Loyang Besar	Sustained Land Pte Ltd
Loyang Terrace	0 Jalan Loyang Besar	Sustained Land Pte Ltd
Riz Haven	207 - 207V Jalan Loyang Besar	Springlife JLB Pte Ltd
Sandy Palm	0 Loyang Rise	TAI CHUAN DEVELOPMENT (PTE) LTD

REPORT #2:

```
SELECT developement,address,DevName FROM developementName LEFT JOIN
Address ON developementName.sno_dn = Address.Development_id LEFT JOIN developers
ON developementName.DevName_id = developers.sno;
```

developement	address	DevName
Aston Residence	0 Jalan Loyang Besar	Yi Kai Development Pte Ltd
Avila Gardens	9 Flora Road	Bonsel Development Pte Ltd
Avila Terrace	0 Mariam Way	Bonsel Development Pte Ltd
Casa Pasir Ris	2 Flora Road	Hong Leong Holdings
Changi Gardens	152 Mariam Way	Novelty Group
Changi Heights	32 Jalan Mariam	Novelty Group
Edelweiss Park Condo	205 Jalan Loyang Besar	Tripartite Developers Pte Ltd
Hedges Park Condominium	0 Loyang Place	Faber Union LTD
JLB Residences	177 Jalan Loyang Besar	Tuan Huat Investment Co. Pte Ltd
Loyang Court	43 Jalan Loyang Besar	Sustained Land Pte Ltd
Loyang Terrace	0 Jalan Loyang Besar	Sustained Land Pte Ltd
Riz Haven	207 - 207V Jalan Loyang Besar	Springlife JLB Pte Ltd
Sandy Palm	0 Loyang Rise	TAI CHUAN DEVELOPMENT (PTE) LTD

REPORT #3:

```
SELECT developement,no_of_units FROM developementName JOIN Units ON
developementName.sno_dn = Units.units_sno GROUP BY no_of_units;
```

developement	no_of_units
Aston Residence	28
Changi Gardens	56
Loyang Terrace	65
Riz Haven	87
Sandy Palm	99
Avila Terrace	112
JLB Residences	125
Casa Pasir Ris	145
Loyang Court	153
Changi Heights	167
Edelweiss Park Condo	168
Hedges Park Condominium	289
Avila Gardens	347

REPORT #4:

```
SELECT developement,no_of_units FROM developementName JOIN Units ON  
developementName.sno_dn = Units.units_sno WHERE developement LIKE 'C%';
```

developement	no_of_units
Casa Pasir Ris	145
Changi Gardens	56
Changi Heights	167