Dormitory Accommodation Term Project

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**Business Rules and Assumptions**

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**Data Definition Language(DDL) Used**

CREATE TABLE STUDENT(

Student# NUMBER(5) NOT NULL,

fName VARCHAR(15),

lName VARCHAR(15),

address VARCHAR(30),

dob DATE,

sex VARCHAR(6),

s\_degree VARCHAR(4),

PRIMARY KEY (Student#));

CREATE TABLE FLAT(

flat# NUMBER(2),

flat\_addr VARCHAR(20),

rooms NUMBER(1),

PRIMARY KEY (flat#));

CREATE TABLE ROOM(

room# NUMBER(2),

rent NUMBER,

flat# NUMBER(2),

PRIMARY KEY (room#),

FOREIGN KEY (flat#) REFERENCES FLAT(flat#));

CREATE TABLE COURSE(

code VARCHAR(10),

course\_name VARCHAR(30),

instructor VARCHAR(10),

PRIMARY KEY (code));

CREATE TABLE STAFF(

staff# NUMBER(3),

fname VARCHAR(10),

lname VARCHAR(10),

addr VARCHAR(6),

staff\_position VARCHAR(15),

PRIMARY KEY (staff#));

CREATE TABLE LEASE(

lease# VARCHAR(5),

l\_length NUMBER,

student# NUMBER(5),

room# NUMBER(2),

commence\_date DATE,

end\_date DATE,

PRIMARY KEY(lease#),

FOREIGN KEY (student#) REFERENCES STUDENT(Student#),

FOREIGN KEY (room#) REFERENCES ROOM(room#));

CREATE TABLE INVOICE(

invoice# NUMBER(3),

payment NUMBER,

payment\_date DATE,

payment\_type VARCHAR(6),

lease# VARCHAR(5),

PRIMARY KEY(invoice#),

FOREIGN KEY(lease#) REFERENCES LEASE(lease#));

CREATE TABLE INSPECTION(

flat# NUMBER(2),

date\_of\_insp DATE,

remarks VARCHAR(6),

staff# NUMBER(3),

FOREIGN KEY (flat#) REFERENCES FLAT(flat#),

FOREIGN KEY(staff#) REFERENCES STAFF(staff#));

CREATE TABLE SERVICE(

service# NUMBER(3),

staff# NUMBER(3),

PRIMARY KEY(service#),

FOREIGN KEY(staff#) REFERENCES STAFF(staff#));

CREATE TABLE GUARDIAN(

student# NUMBER(5),

s\_name VARCHAR(10),

guar\_addr VARCHAR(25),

tele NUMBER(12),

FOREIGN KEY(student#) REFERENCES STUDENT(Student#));

CREATE TABLE HALL(

Hall\_NameVARCHAR(20),

Address VARCHAR (20) NOT NULL,

phone# NUMBER (12) NOT NULL,

manager\_Name VARCHAR (20) NOT NULL,

hall\_room VARCHAR (20) NOT NULL,

hall\_room VARCHAR (20) NOT NULL,

monthly\_rent VARCHAR (20) NOT NULL,

place# NUMBER (12) NOT NULL

);

**Data Manipulation Language(DML) Used**

INSERT INTO STUDENT VALUES (1000, 'John', 'Murphy', '2, Roebuck Castle', '01-23-1993', 'Male', 'BSc');

INSERT INTO STUDENT VALUES (1001, 'Jennifer', 'Neary', '25, St Patricks Park', '02-02-1992', 'Female', 'BA');

INSERT INTO STUDENT VALUES (1002, 'Xiang', 'Yao', '45, Belfield Downs', '12-23-1988', 'Male', 'MSc');

INSERT INTO STUDENT VALUES (1003, 'Ram', 'Nathan', '23, Woodbine Avenue', '03-03-1994', 'Male', 'BE');

INSERT INTO STUDENT VALUES (1004, 'Sebastian', 'Gallardo', '11, Mount Merrion Av', '04-13-1987', 'Male', 'MBA');

INSERT INTO STUDENT VALUES (1005, 'Ania', 'Borges', '67, Booterstown Road', '08-09-1994', 'Female', 'BA');

INSERT INTO STUDENT VALUES (1006, 'Francesca', 'Spencer', '55, Stradbrook Park', '09-05-1993', 'Female', 'BA');

INSERT INTO STUDENT VALUES (1007, 'Chenzhui', 'Li', '9, Avoca Avenue', '11-19-1994', 'Female', 'MSc');

INSERT INTO STUDENT VALUES (1008, 'Rahul', 'Kumar','27, Arlington Plaza', '08-15-1989', 'Male', 'PhD');

INSERT INTO STUDENT VALUES (1009, 'Eric', 'Wallner', '43, Muckross House', '03-31-1990', 'Male', 'BA');

INSERT INTO STUDENT VALUES (1010, 'Orla', 'Fitz', '2, Roebuck Castle', '01-23-1993', 'Male', 'BSc');

INSERT INTO FLAT VALUES (1, '2, Mount Merrion', 4);

INSERT INTO FLAT VALUES (2, '3, Mount Merrion', 5);

INSERT INTO FLAT VALUES (3, '3, Mount Merrion', 5);

INSERT INTO FLAT VALUES (4, '3, Mount Merrion', 5);

INSERT INTO FLAT VALUES (5, '2, Mount Merrion', 4);

INSERT INTO FLAT VALUES (6, '2, Mount Merrion', 4);

INSERT INTO FLAT VALUES (7, '2, Mount Merrion', 4);

INSERT INTO FLAT VALUES (8, '5, Mount Merrion', 6);

INSERT INTO FLAT VALUES (9, '5, Mount Merrion', 6);

INSERT INTO FLAT VALUES (10,'5, Mount Merrion', 6);

INSERT INTO ROOM VALUES (21, 500, 2);

INSERT INTO ROOM VALUES (22, 500, 2);

INSERT INTO ROOM VALUES (11, 600, 1);

INSERT INTO ROOM VALUES (12, 600, 5);

INSERT INTO ROOM VALUES (13, 600, 1);

INSERT INTO ROOM VALUES (23, 500, 4);

INSERT INTO ROOM VALUES (31, 450, 9);

INSERT INTO ROOM VALUES (32, 450, 10);

INSERT INTO ROOM VALUES (33, 450, 8);

INSERT INTO ROOM VALUES (24, 500, 4);

INSERT INTO COURSE VALUES ('PROG1002', 'Programming', 'John');

INSERT INTO COURSE VALUES ('ENGL1202', 'English II', 'Ciara');

INSERT INTO COURSE VALUES ('CHEM2013', 'Chemistry', 'Ruth');

INSERT INTO COURSE VALUES ('MECH4001', 'Mechanical', 'Louis');

INSERT INTO COURSE VALUES ('INTR2145', 'Introduction', 'Nina');

INSERT INTO COURSE VALUES ('OPSY4516', 'Operating Systems', 'Emma');

INSERT INTO COURSE VALUES ('SFEN7841', 'Software', 'Liz');

INSERT INTO COURSE VALUES ('IMGT8201', 'Emerging Technologies', 'Hazel');

INSERT INTO COURSE VALUES ('MNGT1001', 'Management', 'Mark');

INSERT INTO COURSE VALUES ('MATH1011', 'Math I', 'Rachel');

INSERT INTO STAFF VALUES (201, 'Gavin', 'Conor', 'B 201', 'Manager');

INSERT INTO STAFF VALUES (202, 'Brendan', 'Murphy', 'A 101', 'Accountant');

INSERT INTO STAFF VALUES (203, 'Gerry', 'Bowen', 'A 102', 'Security');

INSERT INTO STAFF VALUES (204, 'Fiona', 'Blake', 'C 103', 'Lecturer');

INSERT INTO STAFF VALUES (205, 'Gareth', 'Burke', 'C 101', 'Administrator');

INSERT INTO STAFF VALUES (206, 'Neil', 'Green', 'B 202', 'Custodian');

INSERT INTO STAFF VALUES (207, 'Mark', 'Simpson', 'B 203', 'IT Manager');

INSERT INTO STAFF VALUES (208, 'Ashley', 'SpencFLATer', 'C 104', 'Lecturer');

INSERT INTO STAFF VALUES (209, 'Ramnik', 'Singh', 'A 103', 'Security');

INSERT INTO STAFF VALUES (210, 'Eric', 'Shups', 'C 102', 'Custodian');

INSERT INTO LEASE VALUES ('L-001', 30, 1000, 11, '09-01-2014', '10-01-2014');

INSERT INTO LEASE VALUES ('L-002', 60, 1001, 21, '09-01-2014', '11-01-2014');

INSERT INTO LEASE VALUES ('L-003', 30, 1002, 31, '01-01-2015', '02-01-2015');

INSERT INTO LEASE VALUES ('L-004', 60, 1003, 12, '01-01-2015', '03-01-2015');

INSERT INTO LEASE VALUES ('L-005', 90, 1004, 22, '09-01-2014', '12-01-2014');

INSERT INTO LEASE VALUES ('L-006', 90, 1005, 23, '09-01-2014', '12-01-2014');

INSERT INTO LEASE VALUES ('L-007', 90, 1006, 13, '09-01-2014', '12-01-2014');

INSERT INTO LEASE VALUES ('L-008', 120, 1007, 32,'01-01-2015', '05-01-2015');

INSERT INTO LEASE VALUES ('L-009', 30, 1008, 33, '09-01-2014', '10-01-2014');

INSERT INTO LEASE VALUES ('L-010', 30, 1009, 24, '03-01-2014', '04-01-2014');

INSERT INTO INVOICE VALUES (141, 600.00, '10-01-2014', 'Cash', 'L-001');

INSERT INTO INVOICE VALUES (142, 1000.00, '11-01-2014', 'Cheque', 'L-002');

INSERT INTO INVOICE VALUES (143, 1250.00, '02-01-2015', 'Cash', 'L-003');

INSERT INTO INVOICE VALUES (144, 1200.00, '03-01-2015', 'Card', 'L-004');

INSERT INTO INVOICE VALUES (145, 1500.00, '12-01-2014', 'Cash', 'L-005');

INSERT INTO INVOICE VALUES (146, 1500.00, '12-01-2014', 'Card', 'L-006');

INSERT INTO INVOICE VALUES (147, 1800.00, '12-01-2014', 'Card', 'L-007');

INSERT INTO INVOICE VALUES (148, 1800.00, '05-01-2015', 'Cheque', 'L-008');

INSERT INTO INVOICE VALUES (149, 450.00, '10-01-2014', 'Cheque', 'L-009');

INSERT INTO INVOICE VALUES (150, 500.00, '04-01-2014', 'Cash', 'L-010');

INSERT INTO INSPECTION VALUES (1, '10-15-2014', 'Clean', 201);

INSERT INTO INSPECTION VALUES (2, '10-15-2014', 'Dirty', 201);

INSERT INTO INSPECTION VALUES (3, '10-15-2015', 'Smelly', 205);

INSERT INTO INSPECTION VALUES (4, '10-15-2014', 'Clean', 205);

INSERT INTO INSPECTION VALUES (5, '10-15-2014', 'Dirty', 201);

INSERT INTO INSPECTION VALUES (6, '10-01-2014', 'Clean', 207);

INSERT INTO INSPECTION VALUES (7, '10-25-2014', 'Clean', 201);

INSERT INTO INSPECTION VALUES (8, '04-15-2015', 'Smelly', 205);

INSERT INTO INSPECTION VALUES (9, '03-05-2015', 'Clean', 207);

INSERT INTO INSPECTION VALUES (10,'10-15-2014', 'Dirty', 207);

INSERT INTO SERVICE VALUES (301, 201);

INSERT INTO SERVICE VALUES (302, 201);

INSERT INTO SERVICE VALUES (303, 205);

INSERT INTO SERVICE VALUES (304, 207);

INSERT INTO SERVICE VALUES (305, 201);

INSERT INTO SERVICE VALUES (306, 201);

INSERT INTO SERVICE VALUES (307, 205);

INSERT INTO SERVICE VALUES (308, 207);

INSERT INTO SERVICE VALUES (309, 205);

INSERT INTO SERVICE VALUES (310, 207);

INSERT INTO GUARDIAN VALUES (1000, 'Teddy', '2, Roebuck Castle', 868-037-1353);

INSERT INTO GUARDIAN VALUES (1001, 'Peter', '28, St Patricks Park', 868-234-1532);

INSERT INTO GUARDIAN VALUES (1002, 'John', '24, Stradbrook Park', 868-432-4634);

INSERT INTO GUARDIAN VALUES (1003, 'Fiona', '34, Fosters Av', 868-343-4344);

INSERT INTO GUARDIAN VALUES (1004, 'James', '43, Georges Street', 868-302-3423);

INSERT INTO GUARDIAN VALUES (1005, 'Gerald', '21, Avoca Avenue', 868-703-2123);

INSERT INTO GUARDIAN VALUES (1006, 'Hazel', '28, St Patricks Park', 868-601-3213);

INSERT INTO GUARDIAN VALUES (1007, 'Brendan', '2, The Gallops', 868-243-2311);

INSERT INTO GUARDIAN VALUES (1008, 'Oonagh', '23, Delgany Cottages', 868-224-2424);

INSERT INTO GUARDIAN VALUES (1009, 'Emma', '12, Diagonal Alley', 868-323-4241);

INSERT INTO GUARDIAN VALUES (1010, 'Rupert', '45, Leaky Cauldron', 868-345-2141);

1.SELECT manager\_Name, phone#,

FROM HALL;

3.SELECT semester\_status, banner#, s\_Name

FROM LEASE

SELECT