Appendix A

Drawn Sample queries of Class (G₁₁)

- 1- SELECT address_ id, line1_ number_ building, line2_ number_ street, line3_ area_ locating FROM address WHERE zip_ postcode=5 and city=2;
- 2- SELECT address_ id, line1_ number_ building, line2_ number_ street, line3_ area_ locating, city1 FROM address WHERE zip_ postcode >5 and city=12;
- 3- SELECT city1, country, address_id FROM address WHERE city1 >1 and city=2;
- 4- SELECT city1, country, address_id FROM address WHERE city1<>2 and city=2;
- 5- SELECT state_province, country, address_id FROM address WHERE line2_ number_ street <> 22 and city=15;
- 6- SELECT other_address_details, address_id FROM address WHERE line2_ number_ street <18 and city=17;</p>
- 7- SELECT city1,country,state_province, line1_ number_ building, line2_ number_ street, line3_ area_ locating FROM address WHERE city=25 city<49;
- 8- SELECT country FROM address WHERE city=19and address_id=19;
- 9- SELECT country, city1, state_province FROM address WHERE city=17 and country=22;
- 10- SELECT address_id, line1_ number_ building FROM address WHERE city=23 and line2_ number_ street=19;
- 11- SELECT author_id FROM author WHERE author_id_cls=1 and author_first_name=1;
- 12- SELECT author_id FROM author WHERE author_id_cls=1 and author_first_name=2;
- 13- SELECT author_id , author_first_name FROM author WHERE author_id_cls=15 and author_last_name <21;
- 14- SELECT author_last_name , author_first_name FROM author WHERE author_id_cls=19 and author_id <21;
- 15- SELECT author_last_name, author_first_name FROM author WHERE author_id_cls=7and author_id <>13;
- 16- SELECT author_id_cls ,author_last_name , author_first_name FROM author WHERE author_id_cls=11 and author_id <32;</p>

- 17- SELECT author_id_cls, author_first_name FROM author WHERE author_id_cls=4 and author_id >33;
- 18- SELECT author_id_cls ,author_id FROM author WHERE author_id_cls=5 and author first name<>17;
- 19- SELECT author_first_name FROM author WHERE author_id_cls=14 and author_last_name=14;
- 20- SELECT * FROM author WHERE author_id_cls=16 and author_id <>18;
- 21- SELECT library_id, isbn FROM book_at_library WHERE lib_cls=19 and isbn <50;
- 22- SELECT library_id, isbn FROM book_at_library WHERE lib_cls=2 and isbn =9;
- 23- SELECT library_id, isbn, lib_cls FROM book_at_library WHERE lib_cls=27 and quantity_on_stock>3;
- 24- SELECT quantity_on_stock FROM_book_at_library WHERE lib_cls=15 and isbn <>22;
- 25- SELECT quantity_on_stock FROM_book_at_library WHERE lib_cls=9 and isbn >1;
- 26- SELECT quantity_on_stock,isnb, lib_id FROM book_at_library WHERE lib_cls=24 and library_id=24;
- 27- SELECT isbn FROM book_at_library WHERE lib_cls=11 and isbn <118;
- 28- SELECT * FROM book_at_library WHERE lib_cls=21 and quantity on stock<> 27;
- 29- SELECT quantity_on_stock, isbn FROM book_at_library WHERE lib_cls=16 and library_id>32;
- 30- SELECT quantity_on_stock, library_id FROM book_at_library WHERE lib_cls=13 and library_id>32;
- *31- SELECT* author_id,isbn *FROM book_by_author WHERE* author_id_cls=7 and isbn=7;
- 32- SELECT author_id,isbn FROM book_by_author WHERE author_id_cls=1 and isbn<3;
- 33- SELECT author_id_cls,isbn FROM book_by_author WHERE author_id_cls=1 and isbn>18;
- 34- SELECT author_id,isbn, author_id_cls FROM book_by_author WHERE author_id_cls=12 and isbn<> 33;
- 35- SELECT isbn FROM book_by_author WHERE author_id_cls=1 and auther_id<9;

- 36- SELECT author_id,author_id_cls FROM book_by_author WHERE author_id_cls=12 and author_id>8;
- 37- SELECT * FROM book_by_author WHERE author_id_cls=5 and isbn<12;
- 38- SELECT * FROM book_by_author WHERE author_id_cls=7 and isbn>12;
- *39- SELECT* author_id_cls *FROM book_by_author WHERE* author_id_cls=3 and author_id<>2;
- 40- SELECT author_id FROM_book_by_author WHERE author_id_cls=6 and isbn<>3;

Appendix B

Drawn Sample queries of Class (G₁₂)

- 1- SELECT member_ id , member _first _name , member _last _name, gender FROM Member WHERE member _id = 1 and email _add = 1;
- 2- SELECT member _first _name , member _last _name, phone _number, email _add ,gender FROM Member WHERE member _last _name = 1 and member _id>15;
- 3- SELECT * FROM Member WHERE member_first_name =7 and gender =7;
- 4- SELECT member_id , member_first_name, gender FROM Member WHERE member_id = 10 and mem_id>5;
- 5- SELECT member _first _name , member _last _name, gender FROM Member WHERE member _first _name = 5 and phone_ number = 5;

- 6- SELECT member_id, member_first _name , member _last _name, phone_ number, other_ member_ details FROM Member WHERE member_id -8 and email_address =8;
- 7- SELECT member_id, gender FROM Member WHERE member_first _name=13 and member_last _name=131;
- 8- SELECT *FROM Member WHERE member_ is =2 and gender =2;
- 9- SELECT member _address _id, member id, member _last _name, member _first _name, phone _number, email _add FROM Member WHERE member _id =6 and mem_ id> 1;
- 10- SELECT member_ id, member_ address_ id FROM address WHERE member _first _name=7 and gender=7;
- 11- SELECT address_ id, line1_ number_ building, line2_ number_ street, line3_ area_ locating, city1 FROM address WHERE address_ id=1 and city1=1;
- 12- SELECT address_ id, country, city1 FROM address WHERE address_ id=5 and zip_postcode =5;
- 13- SELECT city, city1,country, state_ province, zip_ postcode FROM address WHERE country=7 and city<8;
- 14- SELECT address_ id, line1_ number_ building, line2_ number_ street, line3_ area_ locating, country FROM address WHERE address_ id=7 and state_ province <6;
- 15- SELECT country, zip_ postcode, city1,state_ province FROM address WHERE address_id=13 and line1_number_building<>75;
- 16- SELECT address_id, city1,other_address_details FROM address WHERE country=10 and address_id <31;
- 17- SELECT country FROM address WHERE address_id=6 city <>70;
- 18- SELECT country, city, city1, state_ province FROM address WHERE country=4 and zip_poscode < 13;
- 19- SELECT country, zip_ postcode, city1,country, city FROM address WHERE address_id=16 and line3_ area_ locating<>25;
- 20- SELECT country, other_address_details, address_id city, country, zip_postcode FROM address WHERE address_id=8 and state_province <9;
- 21- SELECT * FROM author WHERE author_id =1 and author first name =1;
- 22- SELECT author_id_cls, author_id FROM author WHERE author_id =5 and author_id_cls > 1;

- 23- SELECT * FROM author WHERE author_id =4 and author_id_cls < 5;
- 24- SELECT author_first_name, author_last_name FROM author WHERE author_id =8 and author_last_name =8;
- 25- SELECT author_first_name, author_id_cls, author_id FROM author WHERE author_id =6 and author_last_name <> 7;
- 26- SELECT author_last_name, author_id FROM author WHERE author_id =7 and author_last_name = 7;
- 27- SELECT author_first_name, FROM author WHERE author_id = 12 and author_id_cls > 5;
- 28- SELECT author_last_name, FROM author WHERE author_id =10 and author_first_name =10;
- 29- SELECT * FROM author WHERE author_id =11 and author first name <> 22;
- 30- SELECT author_id_cls FROM author WHERE author_id =4 and author_ifirst_name = 4;
- 31- SELECT emp_id, emp_first_name, emp_last_name FROM employee WHERE emp_id =2 and gender =2;
- 32- SELECT emp_id, gender, address FROM employee WHERE emp_id = 3 and phone > 3;
- 33- SELECT emp_id, emp_first_name, emp_last_name, email_ address FROM employee WHERE emp_id =5 and request-id <> 55;
- 34- SELECT emp_id, emp_first_name, emp_last_name, date_of_birth, email_ address , gender FROM employee WHERE emp_id =30 and phone <31;
- 35- SELECT * FROM employee WHERE emp_id =8 and gender = 8;
- 36- SELECT email_ address ,phone, request_id, gender FROM employee WHERE emp_id =10 and address =8;
- 37- SELECT emp_id, request_id FROM employee WHERE emp_id = 15 and email_address=1;
- 38- SELECT emp_first_name, address, gender,phone, email_address, request_id FROM employee WHERE emp_id =6 and gender=6;
- 39- SELECT emp_id FROM employee WHERE emp_id =9 and emp_first_name <>12;
- 40- SELECT email_ address , address, phone, request_id, phone FROM employee WHERE emp_id =15 and emp_first_name=15;

Appendix C

Drawn Sample queries of Class (G₁₃)

- 1- SELECT address_ id, line1_ number_ building, line2_ number_ street, line3_ area_ locating FROM address WHERE country<>3 and city<155;</p>
- 2- SELECT city, country,zip_postcode, city1, state_province, country FROM address WHERE address_i>17 and city<123;
- 3- SELECT other_address_detials, address_id FROM address WHERE city <5 and state_province=1;</p>
- 4- SELECT city1, country, address_id FROM address WHERE city<5 and line1_ number_ building=1;
- 5- SELECT state_province, zip_postcode FROM address WHERE address_id<19 and city<90;
- 6- SELECT address_id, line1_ number_ building, line2_ number_ street, line3_ area_ locating FROM address WHERE zip_postcode= and city>19;
- 7- SELECT city1, country, address_id, state_province, zip_postcode, FROM address WHERE address_id <118 city>3;
- 8- SELECT city,city1,country, state_province, line1_ number_ building, line2_ number_ street, line3_ area_ locating FROM address WHERE city>3 and address_id>1;
- 9- SELECT * FROM address WHERE city>1 and line2_ number_ street>5;

- 10- SELECT address_id, other_address_detials FROM address WHERE city>7 and country<>6;
- 11- SELECT author_id , author_first_name, author_last_name FROM author WHERE author_id_cls < 10 and author_id>1;
- 12- SELECT author_first_name, author_last_name FROM author WHERE author_id_cls<12 and author_first_name=1;
- 13- SELECT author_id , author_id_cls FROM author WHERE author_id_cls < 6 and author_last_name =2;
- 14- SELECT * FROM author WHERE author_id_cls > 3 and author_id > 2;
- 15- SELECT author_first_name FROM author WHERE author_id_cls <4 and author_id > 4;
- 16- SELECT author_id_cls ,author_last_name , author_first_name FROM author WHERE author_id_cls >1 and author_id >1;
- 17- SELECT author_last_name, author_first_name FROM author WHERE author_id_cls >2 and author_first_name =1;
- 18- SELECT author_first_name FROM author WHERE author_id_cls> 33 and author_id >44:
- 19- SELECT author_last_name FROM author WHERE author_id_cls > 6 and author_first_name=2;
- 20- SELECT * FROM book_by_category WHERE car_id_cls> 1 and category_id>1;
- 21- SELECT category_id , isbn FROM book_by_category WHERE car_id_cls>2 and isbn>2;
- 22- SELECT category_id , isbn FROM book_by_category WHERE car_id_cls>2 and isbn>2;
- 23- SELECT isbn FROM book_by_category WHERE car_id_cls>3 and isbn > 2;
- 24- SELECT category_id , car_id_cls FROM book_by_category WHERE car_id_cls>4 and isbn<12;
- 25- SELECT* FROM book_by_category WHERE car_id_cls> 6 and isbn > 2.
- 26- SELECT * FROM library WHERE lib_cls <10 and lib_id <15;

- 27- SELECT library_id,library_name FROM library WHERE lib_cls <12 and library_details =1;
- 28- SELECT library_id,library_name, address_id FROM library WHERE lib_cls <20 and library_id <18;
- 29- SELECT library_details ,library_name FROM library WHERE lib_cls <17 and library_id >3;
- 30- SELECT library_id, library_name , library_details FROM library WHERE lib_cls <13 and address_id >2;
- 31- SELECT member_id,member_first_name,member_last_name, gender FROM member WHERE mem_id> 1and gender=1;
- 32- SELECT phone_number, email_address , member_first_name, member_last_name, gender FROM member WHERE mem_id> 2 and member_first_name <> 12;
- 33- SELECTmember_id,member_address_id, mem_id , email_address FROM member WHERE mem_id> 5 and email_address=3;
- 34- SELECT email_address ,member_first_name,member_last_name, gender FROM member WHERE mem_id> 4 and member_id >6;
- 35- SELECT * FROM member WHERE mem_id> 1 and phone_number=8;
- 36- SELECT email_address ,phone_number, other_member_details FROM member WHERE mem_id<11 and member_id <>15;
- 37- SELECT member_first_name,member_last_name FROM member WHERE mem_id <14 and phone_number > 2;
- 38- SELECT email_address ,phone_number FROM member WHERE mem_id < 18 and member_id >3;
- 39- SELECT * FROM member WHERE mem_id < 50 and gender < 50;
- 40- SELECT member_first_name, member_last_name, gender, phone_number FROM member WHERE mem_id<22and member_address_id <30;

Appendix D

Drawn Sample queries of Class (G₁₄)

- 1- SELECT address_id, city1, city, country FROM address WHERE address_id> 17 and line1_ number_building>17;
- 2- SELECT line1_ number_ building, line2_ number_ street, line3_ area_ locating, address_id, country,zip_postcode, city1, country FROM address WHERE address_i>23 and zip_postcode >23;
- 3- SELECT city,country, zip_postcode FROM address WHERE city <5 and line2_ number_ street <18;</p>
- 4- SELECT * FROM address WHERE country>5 and city <>120;
- 5- SELECT country ,state_province, zip_postcode , city1 FROM address WHERE address_id > 35 and line3_ area_ locating <12;
- 6- SELECT address_id, city, city1, country FROM address WHERE address_id < 8 and line1_number_building>1;
- 7- SELECT address_id, country, city1, state_province, zip_postcode, FROM address WHERE address_id <17 zip_postcode <17;
- 8- SELECT country, city1, state_province, zip_postcode FROM address WHERE country<8 and line2_ number_ street<18;
- 9- SELECT * FROM address WHERE country <20 and city<>20;
- 10- SELECT country, city1, state_province, zip_postcode FROM address WHERE address_id<23 and line3_ area_locating<25;
- 11- SELECT * FROM author WHERE author_id>43 and author_last_name=5;
- 12- SELECT author_id, author_last_name FROM author WHERE author_id>105 and author_id_cls<> 16;

- 13- SELECT author_id, author_id_cls FROM author WHERE author_id>56 and author_first_name=1;
- 14- SELECT author_id, author_last_name FROM author WHERE author_id>105 and author_id_cls<>16;
- 15- SELECT author_last_name FROM author WHERE author_id> 4 and author_first_name>4;
- 16- SELECT * FROM book_at_library WHERE isbn <22 and quantity_on_stock >1;
- 17- SELECT isbn,library_id FROM book_at_library WHERE library_id<19 <22 and quantity_on_stock <15;
- 18- SELECT isbn,library_id ,lib_cls FROM book_at_library WHERE library_id<13 <22 and quantity_on_stock <20;
- 19- SELECT isbn FROM book_at_library WHERE isbn< 30 and lib_cls<. 35;
- 20- SELECT * FROM book_at_library WHERE isbn <10 and quantity_on_stock <15;
- 21- SELECT emp_id, emp_first_name, emp_last_name FROM employee WHERE emp_id >18 and gender =3;
- 22- SELECT emp_first_name, emp_last_name ,date_of_birth FROM employee WHERE emp_id > 5 and gender=15;
- 23- SELECT emp_id, address, phone, email_address FROM employee WHERE emp_id >4 and emp_first_name>5;
- 24- SELECT emp_id, request_id FROM employee WHERE emp_id >77 and email_address>41;
- 25- SELECT emp_first_name, emp_last_name,phone,email_address FROM employee WHERE emp_id >21 and emp_id>21;
- 26- SELECT emp_first_name, emp_last_name , emp_id FROM employee WHERE emp_id < 66 and gender>5;
- 27- SELECT * WHERE emp_id <66 and request_id>28;
- 28- SELECT address ,phone, email_address FROM employee WHERE emp_id <80 and emp_first_name>3;
- 29- SELECT emp_id, request_id FROM employee WHERE emp_id <60 and emp_first_name request_id>5;

- 30- SELECT emp_first_name, emp_last_name ,email_ address , phone FROM employee WHERE emp_id < 50 and request_id<>25;
- 31- SELECT * request_id, member_id, isbn FROM member_request WHERE request_id >20 and isbn>5;
- *32- SELECT* request_id, member_id, isbn *FROM* member_request *WHERE* request_id >2 and isbn>43:
- 33- SELECT date_request, date_located FROM member_request WHERE request_id >115 and members_id > 80;
- 34- SELECT isbn FROM member_request WHERE request_id >66 and other_request_details > 35;
- 35- SELECT isbn, member_id, date_request, date_located FROM member_request WHERE request_id >77 and members_id <120;
- 36- SELECT * FROM member_request WHERE request_id <20 and isbn>17;
- 37- SELECT date_request, date_located FROM member_request WHERE request_id< 45 and isbn >1;
- 38- SELECT request_id, member_id, isbn FROM member_request WHERE request_id< 14 and members_id <> 25;
- *39- SELECT* isbn, member_id, date_request, date_located *FROM* member_request *WHERE* request_id< 8 and members_id >1;
- 40- SELECT isbn FROM member_request WHERE request_id< 80 and other_request_details<22;

Appendix E

Drawn Sample queries of Class (G₁₅)

- 1- SELECT * FROM address WHERE address_id =1 and city1<2;
- 2- SELECT line1_ number_ building, line2_ number_ street, line3_ area_ locating, country FROM address WHERE address_id = 5 and city1<6;
- *3- SELECT* city1,country, zip_postcode, state_province, address_id *FROM* address *WHERE* address_id=7 and zip_postcode<10;
- 4- SELECT address_id, other_address_details FROM address WHERE country= 8 and city1>1;
- 5- SELECT country ,state_province, zip_postcode , city1, other_address_details FROM address WHERE country=16 and zip_postcode>1;
- 6- SELECT library_id, library_name FROM library WHERE library_id =1and lib_cls<>3;
- 7- SELECT library_detials, library_name FROM library WHERE library_id =3 and address_id=3;
- 8- SELECT library_detials, library_id FROM library WHERE library_id =12 and address_id<20;
- 9- SELECT * FROM library WHERE library_id = 2 and libray_name>1;
- 10- SELECT library_name FROM library WHERE library_id =15 and library_detials=15;
- 11- SELECT * FROM address WHERE address_id >15 and city1<2;
- 12- SELECT line1_ number_ building, line2_ number_ street, line3_ area_ locating, country FROM address WHERE address_id >25 and city1<10;</p>
- 13- SELECT city1,country, zip_postcode, state_province, address_id FROM address WHERE address_id>71 and zip_postcode < 20;
- 14- SELECT address_id, other_address_details FROM address WHERE country>13 and city1>121;

- 15- SELECT country ,state_province, zip_postcode , city1, other_address_details FROM address WHERE country >33 and zip_postcode>59;
- 16- SELECT library_id, library_name FROM library WHERE library_id >87and lib_cls<>13;
- 17- SELECT library_detials, library_name FROM library WHERE library_id >19 and address_id=10;
- 18- SELECT library_detials, library_id FROM library WHERE library_id >311and address_id>315;
- 19- SELECT * FROM library WHERE library_id >22 and libray_name>257;
- 20- SELECT library_name FROM library WHERE library_id >620 and library_details >500;
- 21- SELECT * FROM address WHERE address_id <>5 and city1<44;
- 22- SELECT line1_ number_ building, line2_ number_ street, line3_ area_ locating,
 country FROM address WHERE address_id <>7 and city1<10;</pre>
- 23- SELECT city1,country, zip_postcode, state_province, address_id FROM address WHERE address_id <>12 and zip_postcode<18;
- 24- SELECT address_id, other_address_details FROM address WHERE country<>8 and city1>100;
- 25- SELECT country ,state_province, zip_postcode , city1, other_address_details FROM address WHERE country<>16 and zip_postcode>45;
- 26- SELECT library_id, library_name FROM library WHERE library_id <>1and lib_cls<>3;
- 27- SELECT library_detials, library_name FROM library WHERE library_id <>3 and address_id=3;
- 28- SELECT library_detials, library_id FROM library WHERE library_id =<> 130 and address_id<18;
- 29- SELECT * FROM library WHERE library_id <> 2 and libray_name > 73;
- 30- SELECT library_name FROM library WHERE library_id <> 23 and library_detials=15;
- 31- SELECT * FROM address WHERE address_id <8 and city1<15;
- 32- SELECT line1_ number_ building, line2_ number_ street, line3_ area_ locating, country FROM address WHERE address_id <20 and city1<16;

- 33- SELECT city1,country, zip_postcode, state_province, address_id FROM address WHERE address_id <12 and zip_postcode < 20;
- 34- SELECT address_id, other_address_details FROM address WHERE country<3 and city1>19;
- 35- SELECT country ,state_province, zip_postcode , city1, other_address_details FROM address WHERE country <46 and zip_postcode>17;
- 36- SELECT library_id, library_name FROM library WHERE library_id <31and lib_cls<>3;
- 37- SELECT library_detials, library_name FROM library WHERE library_id <29 and address_id>5;
- 38- SELECT library_detials, library_id FROM library WHERE library_id <18 and address_id<50;
- 39- SELECT * FROM library WHERE library_id <27 and libray_name>4;
- 40- SELECT library_name FROM library WHERE library_id <6 and library_detials >4;

Appendix F

Drawn Sample queries of Class (G 21)

1-SELECTmember_first_name,member_last_name,gender,date_request,date_located,request_i d FROM member, member_request WHERE members_id=mem_id and isbn>19 and gender=3;

- 2- SELECTmember_first_name,member_last_name,phone,date_request_request_id,email_addr ess, isbn FROM member, member_request WHERE members_id=mem_id and request_id>62 and member_last_name=3;
- *3- SELECT* phone, gender ,email_address, isbn,member_id *FROM* member, member_request *WHERE members_id=mem_id and member_id>5 and gender<20*;
- 4- SELECT member_first_name, isbn, member_id FROM member, member_request WHERE members_id=mem_id and request_id>0 and phone>23;
- 5- SELECTmember_id,request_id,isbn,other_member_details,other_request_details FROM member, member_request WHERE members_id=mem_id and isbn<50>5 and member_add_id<50;
- 6- SELECT member_id,member_first_name,phone FROM member, member_request WHERE members_id=mem_id and member_id>3 and request_id<>93;
- 7- SELECT date_request,date_located,mem_id, isbn FROM member, member_request WHERE members_id=mem_id and member_ddress_id>33 and isbn<100;
- 8- SELECT phone ,email_address ,member_address_id FROM member, member_request WHERE members_id=mem_id and member_address_id>27 and request_id>10;
- *9- SELECT* phone, member_first_name ,email_address, *FROM* member, member_request *WHERE members_id=mem_id and email_address<>1 and isbn<75;*
- 10- SELECT isbn,mem_id, ,member_id FROM member, member_request WHERE members_id=mem_id and mem_id>77 and isbn>77;
- 11- SELECTmember_first_name,member_last_name,gender,date_request,date_located,request __id FROM __member, member_request WHERE __members_id=mem_id and isbn>32 and __gender<>5;
- 12- SELECmember_first_name,member_last_name,phone,date_request,request_id,email_addre
 ss, isbn FROM member, member_request WHERE members_id=mem_id and request_id
 <>55 and member_last_name=1;
- 13- SELECT phone, gender ,email_address, isbn, request_id FROM member, member_request WHERE members_id=mem_id and request_id>27 and gender<>88;
- 14- SELECT member_first_name, isbn, member_id FROM member, member_request WHERE members_id=mem_id and request_id>56 and phone<>11;
- 15- SELECTmember_id,request_id,isbn,other_member_details,other_request_details FROM member, member_request WHERE members_id=mem_id and isbn<60 and gender<60;

- 16- SELECT members_id,member_first_name,phone FROM member, member_request WHERE members_id=mem_id and members_id>54 and request_id<>88;
- 17- SELECT date_request,date_located,members_id, isbn FROM member, member_request WHERE members_id=mem_id and member_ddress_id>42 and request_id<97;
- 18- SELECT phone ,email_address ,member_address_id FROM member, member_request WHERE members_id=mem_id and member_address_id>39 and request_id >21;
- 19- SELECT phone, member_first_name ,email_address, FROM member, member_request WHERE members_id=mem_id and email_address<>1 and request_id>5;
- 20- SELECT isbn,mem_id ,members_id FROM member, member_request WHERE members_id=mem_id and mem_id>90 and isbn>44;
- 21- SELECT library_id, library_name,isbn FROM library, book_at_library WHERE lib_cls and isbn >35 and library_id <>90;
- 22- SELECT library_id, library_name, quantity FROM library, book_at_library WHERE lib_cls=lib_cls and quantity<26 and address_id >11;
- 23- SELECT library_id, library_name, isbn FROM library, book_at_library WHERE lib_cls_and quantity >32 and address_id <> 18;
- 24- SELECT library_details , library_name, quantity FROM library, book_at_library WHERE lib_cls=lib_cls and library_name>2 and isbn>2;
- 25- SELECT library_id, address_id, quantity FROM library, book_at_library WHERE lib_cls and isbn <>37 and library_details>42;
- 26- SELECT library_details , library_name, isnb FROM library, book_at_library WHERE lib_cls=lib_cls and library_details>5 and isbn>44;
- 27- SELECT isbn, quantity FROM library, book_at_library WHERE lib_cls and address_id>75 and isbn <> 50;
- 28- SELECT library_details , isbn FROM library, book_at_library WHERE lib_cls and address_id > 75 and isbn<> 17;
- 29- SELECT isbn, quantity, lib_cls FROM library, book_at_library WHERE lib_cls and address_id>15 and quantity>15;
- 30- SELECT isbn, address_id, library_name FROM library, book_at_library WHERE lib_cls and library_name <>20 and isbn <> 20;

- 31- SELECT library_id, library_name, isbn FROM library, book_at_library WHERE library_id = library_id and library_id > 1 and isbn>1;
- 32- SELECT library_id, library_name, quantity FROM library, book_at_library WHERE lib_cls=lib_cls and quantity >1 and librar id > 1;
- 33- SELECT library_id , library_name, isbn FROM library, book_at_library WHERE lib_cls_and address_id<3 and isbn>3;
- 34- SELECT library_name, library_details FROM library, book_at_library WHERE lib_cls_lib_cls and lib_cls>25 and library_id>75;
- 35- SELECT address_id , library_id FROM library, book_at_library WHERE lib_cls and library_details>15 and isbn>15;
- 36- SELECT isbn, library_id, library_details FROM library, book_at_library WHERE lib_cls_and address_id>13 and isbn >13;
- 37- SELECT library_details , isbn FROM library, book_at_library WHERE lib_cls and address_id quantity <>1 and library_name<>1;
- 38- SELECT isbn, library_details FROM library, book_at_library WHERE lib_cls and address_id>11 and isbn>88;
- 39- SELECT isbn, quantity, lib_cls FROM library, book_at_library WHERE lib_cls and quantity>14 and lib cls>13;
- 40- SELECT address_id, library_name, isbn FROM library, book_at_library WHERE library_id = library_id and library_id <>120 and isbn <> 120;

Appendix G

Drawn Sample queries of Class (G 22)

- 1- SELECT emp_id, emp_first_name, address, isbn FROM employee, member_request WHERE request_id=request_id and phone>1 and isbn>1;
- 2- SELECT phone, emp_first_name, email_address, isbn, gender, address FROM employee, member_request WHERE request_id=request_id and phone >53 and isbn <>119;
- *3- SELECT* member_id, *request_id*, date_located, date_requested, isbn *FROM* employee, member_request *WHERE request_id=request_id and emp_id >16* and isbn <33;
- 4- SELECT member_id, date_located, date_requested, isbn FROM employee, member_request WHERE request_id=request_id and emp_id >27 and isbn >55;
- 5- SELECT emp_id, date_of_birth, address, phone email_address, request_id FROM employee, member_request WHERE request_id=request_id and gender >1 and other_request_details >1;
- 6- SELECT emp_id ,emp_first_name, request_id FROM employee, member_request WHERE request_id=request_id and gender <15 and isbn > 3;

- 7- SELECT request_id, isbn FROM employee, member_request WHERE request_id=request_id and emp_id >8 and isbn >1;
- 8- SELECT emp_id, emp_first_name, requested FROM employee, member_request WHERE request_id=request_id and gender <15 and isbn >3;
- *9- SELECT emp_id*, *date_of_birth*, *request_id FROM* employee, member_request *WHERE request_id=request_id and address >90* and other_request_details >95;
- 10- SELECT gender, emp_first_name, emp_last_name, emp_id, isbn, request_id FROM employee, member_request WHERE request_id=request_id and emp_id > 7 and isbn > 55;
- 11- SELECT isbn, book_title, date_of_publication, quantity FROM book, book_at_library WHERE isbn= isbn and member_cls>1 and lib_cls>1;
- 12- SELECT isbn, library_id FROM book, book_at_library WHERE isbn= isbn and book_title <>45 and lib_cls <>45;
- 13- SELECT isbn, book_title, member_cls FROM book, book_at_library WHERE isbn= isbn and book title<> 1 and quantity<100;
- 14- SELECT book_title, date_of_publication FROM book, book_at_library WHERE isbn= isbn and quantity>5 and isbn <>11;
- 15- SELECT isbn FROM book, book_at_library WHERE isbn= isbn and quantity >21 and book_title <> 113;
- 16- SELECT lib_cls, library_id FROM book, book_at_library WHERE isbn= isbn and member_cls <>10 and library_id>43;
- 17- SELECT isbn, date_of_publication, quantity FROM book, book_at_library WHERE isbn= isbn and isbn <100 and quantity <>3;
- 18- SELECT book_title FROM book, book_at_library WHERE isbn= isbn and quantity<19 and member_cls <.16;
- 19- SELECT isbnl, ib_cls FROM book, book_at_library WHERE isbn= isbn and isbn<>17 and library <12;
- 20- SELECT isbn, library_id, member_cls,lib_cls FROM book, book_at_library WHERE isbn= isbn book_title <>17 and quantity<>17;
- 21- SELECT emp_id, emp_first_name, address, isbn FROM employee, member_request WHERE request_id=request_id and phone>2 and isbn>1;

- 22- SELECT phone, emp_first_name, email_address, isbn, gender, address FROM employee, member_request WHERE request_id=request_id and emp_id<13 and isbn >5;
- 23- SELECT member_id, request_id, date_located, date_requested, isbn FROM employee, member_request WHERE request_id=request_id and emp_id >44 and isbn <50;
- 24- SELECT member_id, date_located, date_requested, isbn FROM employee, member_request WHERE request_id=request_id and emp_id <>2 and isbn >2;
- 25- SELECT emp_id, date_of_birth, address, phone email_address, request_id FROM employee, member_request WHERE request_id=request_id and gender > 2 and other_request_details > 2;
- 26- SELECT emp_id ,isbn FROM employee, member_request WHERE request_id=request_id and emp_id>27 <15 and isbn > 55;
- 27- SELECT request_id, isbn FROM employee, member_request WHERE request_id=request_id and emp_id >8 and isbn >1;
- 28- SELECT isbn, request_id requested FROM employee, member_request WHERE request_id=request_id and emp_id <> 25 and isbn > 68;
- 29- SELECT emp_id, date_of_birth, request_id FROM employee, member_request WHERE request_id=request_id and address >3 and other_request_details <>60;
- 30- SELECT gender, emp_first_name, emp_last_name, emp_id, isbn, request_id FROM employee, member_request WHERE request_id=request_id and emp_id <45 and isbn <>19;
- 31- SELECT isbn, book_title, date_of_publication, quantity FROM book, book_at_library WHERE isbn= isbn and member_cls>2 and lib_cls>2;
- 32- SELECT isbn, library_id FROM book, book_at_library WHERE isbn= isbn and isbn <>19 and lib_cls <>18;
- 33- SELECT isbn, book_title, member_cls FROM book, book_at_library WHERE isbn= isbn and book_title<> 37 and library_id >2;
- 34- SELECT book_title, date_of_publication FROM book, book_at_library WHERE isbn= isbn and quantity>3 and isbn >3;
- 35- SELECT isbn FROM book, book_at_library WHERE isbn= isbn and quantity >39 and book_title <> 13;
- 36- SELECT lib_cls, library_id FROM book, book_at_library WHERE isbn= isbn and member_cls <>1 and library_id>75;

- 37- SELECT isbn, date_of_publication, quantity FROM book, book_at_library WHERE isbn= isbn and isbn <>35 and quantity >23;
- 38- SELECT book_title FROM book, book_at_library WHERE isbn= isbn and quantity<5 and member_cls <5;
- 39- SELECT isbn, lib_cls FROM book, book_at_library WHERE isbn= isbn and isbn <17 and book title>5;
- 40- SELECT isbn, library_id, member_cls,lib_cls FROM book, book_at_library WHERE isbn= isbn book_title <>44 and quantity >80;

Appendix H

Drawn Sample queries of Class (G 2 3)

- 1- SELECT item_id, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num>8 and quantity<65;</pre>
- 2- SELECT item_id, item_desc, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num<19 and br_quantity <> 55;
- *3- SELECT* item_itype, item_desc *FROM* item, borrow_item *WHERE* item_id=item_id and serial_num<45 and payment >7;
- 4- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num > 16 and quantity > 10;
- 5- SELECT br_bur_date,br_return, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 2 and item_id=1;
- 6- SELECT item_itype, item_desc, serial_num, item_desc. Item_allowed FROM item, borrow_item WHERE item_id=item_id and serial_num <6 and br_late_payment <>15;
- 7- SELECT br_return_date, quantity, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <> 5 and quantity > 43;
- 8- SELECT item_desc, item_id, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >55 and payment <>15;
- 9- SELECT br_dur_date, payment, item_id FROM item, borrow_item WHERE item_id=item_id
 and serial_num <4 and quantity <> 10;

- 10- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num >50 and quantity <78;
- 11- SELECT item_type, br_dur_date, br_return, late _status FROM item, borrow_item WHERE item_id=item_id and serial_num >44 and quantity <>33;
- 12- SELECT quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <12 and payment<>45;
- 13- SELECT payment, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >66 and quantity <>45;
- 14- SELECT item_id, item_desc, serial_num, item_ type FROM item, borrow_item WHERE item_id=item_id and serial_num<8 and quantity <> 19;
- 15- SELECT br_return_date, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >33 and quantity <> 44;
- 16- SELECT br_dur_date, payment, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num <4 and payment<>21;
- 17- SELECT item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 55and quantity =1;
- 18- SELECT item_desc, item_allowed, br_return_date, br_dur FROM item, borrow_item WHERE item_id=item_id and serial_num >66 and quantity <>15;
- 19- SELECT item_id,serial_num, quantity, item_desc, item_allowed, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >56 and payment<>12;
- 20- SELECT item_id,serial_num, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <12 and quantity<>13;
- 21- SELECT item_id, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num>55 and quantity<80;
- 22- SELECT item_id, item_desc, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num<15 and payment> 1;
- 23- SELECT item_itype, item_desc FROM item, borrow_item WHERE item_id=item_id and serial_num<25 and payment >1;
- 24- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num >4 and quantity > 4;

- 25- SELECT br_bur_date,br_return, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 3 and item_id=3;
- 26- SELECT item_itype, item_desc, serial_num, item_desc. Item_allowed FROM item, borrow_item WHERE item_id=item_id and serial_num > 15 and quantity=3;
- 27- SELECT br_return_date, quantity, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num = 12 and quantity <>7;
- 28- SELECT item_desc, item_id, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >10 and item_id <>15;
- 29- SELECT br_dur_date, payment, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <35 and item_desc <> 95;
- 30- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num > 12 and item_id>12;
- 31- SELECT item_type, br_dur_date, br_return_allowed, late _status FROM item, borrow_item WHERE item_id=item_id and serial_num >15 and quantity <>45;
- 32- SELECT quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <55 and item_id<>55;
- 33- SELECT payment, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >8 and item_id<>60;
- 34- SELECT item_id, item_desc, serial_num, item_ type FROM item, borrow_item WHERE item_id=item_id and serial_num<70 and pyment=5;
- 35- SELECT br_return_date, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >8 and item_id<45;
- 36- SELECT br_dur_date, payment, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num >6 and payment<>20;
- 37- SELECT item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 13 and quantity >10;
- 38- SELECT item_desc, item_allowed, br_return_date, br_dur FROM item, borrow_item WHERE item_id=item_id and serial_num >14 and quantity <>11;
- 39- SELECT item_id,serial_num, quantity, item_desc, item_allowed, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >18 and payment <>4;

40- SELECT item_id, serial_num, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <15 and payment<15;

Appendix I

Drawn Sample queries of Class (G 24)

- 1- SELECT item_id, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num>8 and quantity<65;
- 2- SELECT item_id, item_desc, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num<19 and br_quantity <> 55;
- *3- SELECT* item_itype, item_desc *FROM* item, borrow_item *WHERE* item_id=item_id and serial_num<45 and payment >7;
- 4- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num > 16 and quantity > 10;
- 5- SELECT br_bur_date,br_return, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 2 and item_id=1;
- 6- SELECT item_itype, item_desc, serial_num, item_desc. Item_allowed FROM item, borrow_item WHERE item_id=item_id and serial_num <6 and br_late_payment <>15;
- 7- SELECT br_return_date, quantity, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <> 5 and quantity > 43;
- 8- SELECT item_desc, item_id, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >55 and payment <>15;
- 9- SELECT br_dur_date, payment, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <4 and quantity <> 10;
- 10- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num >50 and quantity <78;

- 11- SELECT item_type, br_dur_date, br_return, late _status FROM item, borrow_item WHERE item_id=item_id and serial_num >44 and quantity <>33;
- 12- SELECT quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <12 and payment<>45;
- 13- SELECT payment, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >66 and quantity <>45;
- 14- SELECT item_id, item_desc, serial_num, item_ type FROM item, borrow_item WHERE item_id=item_id and serial_num<8 and quantity <> 19;
- 15- SELECT br_return_date, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >33 and quantity = 44;
- 16- SELECT br_dur_date, payment, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num <4 and payment=21;
- 17- SELECT item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 55and quantity =1;
- 18- SELECT item_desc, item_allowed, br_return_date, br_dur FROM item, borrow_item WHERE item_id=item_id and serial_num >66 and quantity =15;
- 19- SELECT item_id, serial_num, quantity, item_desc, item_allowed, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >56 and payment=12;
- 20- SELECT item_id,serial_num, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <12 and quantity=13;</pre>
- 21- SELECT item_id, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num>55 and quantity<80;
- 22- SELECT item_id, item_desc, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num<15 and payment> 1;
- 23- SELECT item_itype, item_desc FROM item, borrow_item WHERE item_id=item_id and serial_num<25 and payment >1;
- 24- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num >4 and quantity > 4;

- 25- SELECT br_bur_date,br_return, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 3 and quantity=3;
- 26- SELECT item_itype, item_desc, serial_num, item_desc. Item_allowed FROM item, borrow_item WHERE item_id=item_id and serial_num > 15 and quantity=3;
- 27- SELECT br_return_date, quantity, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <>12 and quantity <>7;
- 28- SELECT item_desc, item_id, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >10 and item_id =15;
- 29- SELECT br_dur_date, payment, item_id FROM item, borrow_item WHERE item_id=item_id and serial_num <35 and quantity =95;
- 30- SELECT br_dur_date, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num > 12 and quantity > 12;
- 31- SELECT item_type, br_dur_date, br_return_allowed, late _status FROM item, borrow_item WHERE item_id=item_id and serial_num > 15 and quantity = 45;
- 32- SELECT quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <55 and payment=55;
- 33- SELECT payment, serial_num FROM item, borrow_item WHERE item_id=item_id and serial_num >8 and payment<>60;
- 34- SELECT item_id, item_desc, serial_num, item_ type FROM item, borrow_item WHERE item_id=item_id and serial_num<70 and pyment=5;
- 35- SELECT br_return_date, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >8 and item_id<45;
- 36- SELECT br_dur_date, payment, item_type FROM item, borrow_item WHERE item_id=item_id and serial_num >6 and payment =20;
- 37- SELECT item_type FROM item, borrow_item WHERE item_id=item_id and serial_num = 13 and quantity >10;
- 38- SELECT item_desc, item_allowed, br_return_date, br_dur FROM item, borrow_item WHERE item_id=item_id and serial_num >14 and quantity =11;
- 39- SELECT item_id,serial_num, quantity, item_desc, item_allowed, payment FROM item, borrow_item WHERE item_id=item_id and serial_num >18 and payment=4;

40- SELECT item_id,serial_num, quantity FROM item, borrow_item WHERE item_id=item_id and serial_num <15 and payment<15;