

**SUBMITTED BY: VIVEK MITTAL (B18153)**

Ans 1

```
SELECT * FROM Book where bID not in (select distinct bId from Scoring
where rId = 205);
```

Ans 2

```
SELECT distinct author from Reviewer, Book where Reviewer.name =
Book.author;
```

Ans 3

```
SELECT name, title, score from Scoring, (select * from Book, Reviewer
where author = name) as new_table where Scoring.rId = new_table.rId AND
Scoring.bId = new_table.bId;
```

Ans 4

```
SELECT title,new_table.min_max from Book INNER JOIN (select bId,
MAX(Score)-MIN(Score) as min_max from Scoring group by bId) as new_table
ON Book.bId = new_table.bId ORDER BY new_table.min_max DESC, title ASC;
```

Ans 5

```
SELECT table2.score - table1.score from (SELECT AVG(final_table.avg_score)
as score FROM (SELECT Book.bId, year, new_table.avg_score from Book LEFT
JOIN (SELECT bId, AVG(Score) as avg_score from Scoring group by bId order
by bId ASC) as new_table ON Book.bId = new_table.bId) as final_table WHERE
final_table.year > 1970) as table1, (SELECT AVG(final_table.avg_score) as
score FROM (SELECT Book.bId, year, new_table.avg_score from Book LEFT JOIN
(SELECT bId, AVG(Score) as avg_score from Scoring group by bId order by
bId ASC) as new_table ON Book.bId = new_table.bId) as final_table WHERE
final_table.year <1970) as table2;
```

Ans 6

```
SELECT title, new_table.author from Book, (SELECT author, COUNT(author) as
num_books from Book group by author having num_books > 1) as new_table
WHERE Book.author = new_table.author;
```

Ans 7

```
SELECT title, max_avg_score from Book, (SELECT avg_table.bId,
MAX(avg_table.avg_score) as max_avg_score from (SELECT bId, AVG(score) as
avg_score from Scoring group by bId order by avg_score DESC) as avg_table)
as final_table WHERE Book.bId = final_table.bId;
```

Ans 8

```
SELECT author,max_score,title from Book INNER JOIN (SELECT bID, max(score)
as max_score from Scoring group by bID) as new_table on
new_table.bID=Book.bID where author <> 'NULL';
```

Ans 9

```
SELECT distinct table1.name as name1, table2.name as name2 from Reviewer
table1, Reviewer table2, Scoring s1,Scoring s2 where s1.bID=s2.bID and
s1.rID=table1.rID and s2.rID=table2.rID and table1.name<table2.name order
by table1.name ASC, table2.name ASC;
```

Ans 10

```
SELECT name from Reviewer,(SELECT rId, COUNT(bId) as counts from Scoring
group by rId having counts >2) as new_table WHERE Reviewer.rId =
new_table.rId;
```