Subqueries Subqueries are queries nested within another queries.

Eg: Select id, start-time from screenings where film-id in (select id from films where length-min >120); outer query inner query

Subquerier can be used with select, insert, update or delete

query.

The install The nested queriles can be in the whore clause or after the from statement in select statement. Non-correlated (b) correlated (a) Non-correlated subqueries-The inner greary can own independitly of the outer query, there, the inner query runs first and produces a result set, which is then used by the outer query. which is then used by the outer query. The inner query is run only once. The inner query can't runn independently of the outer

(b) Correlated Subqueries -

Select screening-id, customer-id (select & count (seat-id)
from reserved-seat where booking-id = Boild) from bookings E The inner query sure for every row in the outer query.

> In non-correlated queries we can put the subquery with the where clause and also in the from clause. Eg: select id, stood-time from screenings where film-i in (select id from films where length-min>120);

Mere, subquerifused withe the where clause

Select aug(no-seats), maxisents) from (select booking-id)

(ount (seat-id) as no - seats from reserved-seat

· . . 3011. 1162

I houppy booking-id) b;

derived table have.

When we we subquery incide the from daws a derived table which is temporary in nature gets generated thus we full a name for it at the end.

## Exercise-8

Delect the film name and length for all films with a length

greater than the average film length.

select name, length-min from films where length-min > ( select

aug (length-min) from films 9;

2) select the maximum number of and the minimum number

of screenings for a particular film.

select max(id), min(id) from (select film-id, countfid) as id. from screenings group-by filmid) a;

3 Select each film name and the no of screenings for that film

Veingjoins > select finame, count (sid) from films f join screenings on fild = Si film-id group by for name ;

Using Go-related subquerces:

Sefect name (select (1d) from screenings where film-id=fid) from films fi

What are MySQL functions? Functions are stored programs which can be passed parameters and return a value.

→ String functions: Joining together data from multiple.

Columns and returning it in a single column

\* concat ( ) function

Eg: Select Concat (coll, coll) as new-column from table;

\* Substring () function - To extract a substring
from a given straing.

Syntax: Substring (string, sturt, length) - Used to take

Eg: select substring ("Example", 3, 3); I amp length parameter is optional, if we do not include it it will start from starting index and will go till the last

\* upper () and lower () function

Syntax: select upper (column) as new-column-name from table; Select lower (column) as new-column-name from table; > Date functions:

\* Date () function; To certified date from date, date time

Select date ( '2017 - 12 14' 07: 43:32'); of 2017-06-14

select & from screenings where date (start-time) between 2017-06-15 and 2017-06-30;

\* Month() function: It returns the month from a date Select manth (2018-06 14' 07: 45:32); I 06

\* Year () function: It returns the year from a date.
Select year (1018-05-11); at 2018