A. OLAP and Data Warehouse (25%)

Consider the following table called **Movies**:

Movie	FemaleStar	MaleStar	TimeShowing	Genre	Budget (M\$)
Oblivion	Kurylenko	Cruise	Apr 2013	Sci-Fi	120
The Hunger Games	Lawrence	Tucci	Mar 2012	Sci-Fi	78
Flight	Reilly	Washington	Nov 2012	Drama	31
Silver Linings Playbook	Lawrence	Cooper	Nov 2012	Comedy	21
Six Degrees of Separation	Graham	Smith	Dec 1993	Comedy	12
The Hangover	Graham	Cooper	Nov 2011	Comedy	35

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SELECT FemaleStar, Genre, AVG(Budget) AS AvgB FROM Movies WHERE Budget <= 100 AND Genre IN {'Sci-Fi', 'Comedy'} GROUP BY FemaleStar, Genre

1)	Show the result of query Q_1 by filling in the table below (you may not need to use all the
	rows and columns).

2) On the result you obtained in point 1), perform now a **rollup** operation on the **Genre** and show the result by filling in the table below (you may not need to use all the rows and columns)

3) On the result obtained in point 2), perform now a **drill-down** operation on the **TimeShowing** dimension, keeping it at the "year" level. Show the result by filling in the table below (you may not need to use all the rows and columns)

4) Let \mathbf{Q}_2 be the same query as \mathbf{Q}_1 but with the "WITH ROLLUP" clause at the end. Show the result of query \mathbf{Q}_2 by filling in the table below (you may not need to use all the rows and columns)

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