

## CSE370 : Database Systems Lab Mid | Fall 2024

### Answer Sheet - SET - A

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No 1 Query (as Plain Text)	SELECT Task, SlayerID FROM Training WHERE Date BETWEEN '1912-01-01' AND '1914-01-01';
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [DemonSlayer_22301689]&gt; SELECT Task, SlayerID FROM Training WHERE Date BETWEEN '1912-01-01' AND '1914-01-01'; +-----+-----+   Task                  SlayerID   +-----+-----+   Waterfall Meditation           1     Boulder Cutting               3     Breath Control                 5     Swordsmanship                  4     Demon Decapitation Drill           2     Mist Training                 10     Flame Training                 7     Agility Drill                  6     Endurance Test                 8     Strength Building              9   +-----+-----+ 10 rows in set (0.002 sec)</pre>
No 2 Query (as Plain Text)	SELECT Form FROM PopularForms WHERE Form LIKE '%a%a%a%';

No 2 SS  
(of Query & Output  
in Shell)

```
MariaDB [DemonSlayer_22301689]> SELECT Form FROM PopularForms WHERE Form LIKE '%a%a%a%';
+-----+
| Form          |
+-----+
| Water Surface Slash |
| Hinokami Kagura   |
| Thunderclap and Flash |
+-----+
3 rows in set (0.001 sec)
```

No 3 Query  
(as Plain Text)

```
SELECT Family, TotalHashiras -> FROM Families
-> WHERE AbilityPts < 80
-> ORDER BY AbilityPts ASC;
```

No 3 SS  
(of Query & Output  
in Shell)

```
MariaDB [DemonSlayer_22301689]> SELECT Family, TotalHashiras
-> FROM Families
-> WHERE AbilityPts < 80
-> ORDER BY AbilityPts ASC;
+-----+-----+
| Family    | TotalHashiras |
+-----+-----+
| Hashibira | 1             |
| Agatsuma  | 1             |
| Tsuyuri   | 1             |
+-----+-----+
3 rows in set (0.001 sec)
```

No 4 Query (as Plain Text)	<pre>SELECT Form -&gt; FROM PopularForms -&gt; WHERE DiffLvl IN ( -&gt;   SELECT DiffLvl -&gt;   FROM PopularForms -&gt;   WHERE Type = 'Light' -&gt; );</pre>
No 4 SS (of Query & Output in Shell)	<pre>MariaDB [DemonSlayer_22301689]&gt; SELECT Form -&gt; FROM PopularForms -&gt; WHERE DiffLvl IN ( -&gt;   SELECT DiffLvl -&gt;   FROM PopularForms -&gt;   WHERE Type = 'Light' -&gt; ); +-----+   Form                                       +-----+   Raging Sun                                 Hinokami Kagura                            Eighth Form: Moonlight Elegy            +-----+ 3 rows in set (0.003 sec)</pre>

No 5 Query (as Plain Text)	<pre>SELECT Name -&gt; FROM Slayers -&gt; WHERE IsHashira = TRUE -&gt;  AND Family IN ( -&gt;    SELECT Family -&gt;    FROM Families -&gt;    WHERE TotalHashiras &lt; 2 -&gt; );</pre>					
No 5 SS (of Query & Output in Shell)	<pre>MariaDB [DemonSlayer_22301689]&gt; SELECT Name -&gt; FROM Slayers -&gt; WHERE IsHashira = TRUE -&gt;  AND Family IN ( -&gt;    SELECT Family -&gt;    FROM Families -&gt;    WHERE TotalHashiras &lt; 2 -&gt; );</pre> <table><tr><th>Name</th></tr><tr><td>Zenitsu Agatsuma</td></tr><tr><td>Kanao Tsuyuri</td></tr><tr><td>Giyu Tomioka</td></tr><tr><td>Muichiro Tokito</td></tr></table> <pre>4 rows in set (0.002 sec)</pre>	Name	Zenitsu Agatsuma	Kanao Tsuyuri	Giyu Tomioka	Muichiro Tokito
Name						
Zenitsu Agatsuma						
Kanao Tsuyuri						
Giyu Tomioka						
Muichiro Tokito						

<p>No 6 Query (as Plain Text)</p>	<p>UPDATE Families SET AbilityPts = AbilityPts *0.1 -&gt; WHERE AbilityPts &gt; (SELECT AVG(AbilityPts) FROM Families);</p>
<p>No 6 SS (of Query &amp; Output in Shell)</p>	<pre> MariaDB [DemonSlayer_22301689]&gt; UPDATE Families SET AbilityPts = AbilityPts *0.1     -&gt; WHERE AbilityPts &gt; (SELECT AVG(AbilityPts) FROM Families); Query OK, 5 rows affected (0.051 sec) Rows matched: 5  Changed: 5  Warnings: 0  MariaDB [DemonSlayer_22301689]&gt; show databases; +-----+   Database   +-----+   bank_22301689     company_22301689     demonslayer_22301689     google_22301689     information_schema     mysql     performance_schema     phpmyadmin     test   +-----+ 9 rows in set (0.002 sec) </pre>
<p>No 7 Query (as Plain Text)</p>	<p>SELECT Form -&gt; FROM PopularForms -&gt; WHERE DiffLvl &gt; (SELECT MIN(DiffLvl) FROM PopularForms) -&gt; ORDER BY DiffLvl ASC</p>

	-> LIMIT 3;
No 7 SS (of Query & Output in Shell)	<pre> MariaDB [DemonSlayer_22301689]&gt; SELECT Form   -&gt; FROM PopularForms   -&gt; WHERE DiffLvl &gt; (SELECT MIN(DiffLvl) FROM PopularForms)   -&gt; ORDER BY DiffLvl ASC   -&gt; LIMIT 3;  +-----+   Form                  +-----+   Water Surface Slash     Whirlwind Cutter        Thunderclap and Flash   +-----+ 3 rows in set (0.001 sec) </pre>
No 8 Query (as Plain Text)	<pre> SELECT Name   -&gt; FROM Slayers   -&gt; WHERE Slayer_ID = (   -&gt;   SELECT SlayerID   -&gt;   FROM Training   -&gt;   WHERE Task = 'Swordsmanship'   -&gt; ) AND IsHashira = FALSE; </pre>

<p>No 8 SS (of Query &amp; Output in Shell)</p>	<pre> MariaDB [DemonSlayer_22301689]&gt; SELECT Name -&gt; FROM Slayers -&gt; WHERE Slayer_ID = ( -&gt;     SELECT SlayerID -&gt;     FROM Training -&gt;     WHERE Task = 'Swordsmanship' -&gt; ) AND IsHashira = FALSE;  +-----+   Name            +-----+   Inosuke Hashibira   +-----+ 1 row in set (0.001 sec) </pre>
<p>No 9 Query (as Plain Text)</p>	<pre> SELECT pf.Form, pf.Type, s.Name -&gt; FROM PopularForms pf -&gt; RIGHT JOIN Slayers s -&gt; ON pf.FormID = s.FormID; </pre>

No 9 SS  
(of Query & Output  
in Shell)

```
MariaDB [DemonSlayer_22301689]> SELECT pf.Form, pf.Type, s.Name  
-> FROM PopularForms pf  
-> RIGHT JOIN Slayers s  
-> ON pf.FormID = s.FormID;
```

Form	Type	Name
Water Surface Slash	Water	Tanjiro Kamado
NULL	NULL	Nezuko Kamado
Thunderclap and Flash	Lightning	Zenitsu Agatsuma
NULL	NULL	Inosuke Hashibira
Insect Sting: Butterfly Dance	Insect	Kanao Tsuyuri
NULL	NULL	Genya Shinazugawa
Water Surface Slash	Water	Giyu Tomioka
Whirlwind Cutter	Wind	Sanemi Shinazugawa
Insect Sting: Butterfly Dance	Insect	Shinobu Kocho
Silent Mist Strike	Mist	Muichiro Tokito

```
10 rows in set (0.001 sec)
```



<p>No 10 Query (as Plain Text)</p>	<pre>SELECT SUM(f.AbilityPts) AS TotalAbilityPts -&gt; FROM Families f -&gt; JOIN Slayers s -&gt; ON f.Family = s.Family -&gt; JOIN Training t -&gt; ON s.Slayer_ID = t.SlayerID -&gt; WHERE t.Task = 'Breath Control';</pre>
<p>No 10 SS (of Query &amp; Output in Shell)</p>	<pre>MariaDB [DemonSlayer_22301689]&gt; SELECT SUM(f.AbilityPts) AS TotalAbilityPts -&gt; FROM Families f -&gt; JOIN Slayers s -&gt; ON f.Family = s.Family -&gt; JOIN Training t -&gt; ON s.Slayer_ID = t.SlayerID -&gt; WHERE t.Task = 'Breath Control'; +-----+   TotalAbilityPts   +-----+                  7   +-----+ 1 row in set (0.001 sec)</pre>