Samuel Lobongtan

BasisData

1


```
MariaDB [jadwal_perkuliahan]> SELECT * FROM jadwal;
+------------+------------+------------+---------+-----------+-----------+----------+------------+
| kode_jadwal | kode_kelas | kode_dosen | kode_mk | kode_ruang | kode_hari | jp_mulai | jp_selesai |
+------------+------------+------------+---------+-----------+-----------+----------+------------+
|          1 | 2021020101 | D001       | 02001   | 0504      | 001       |        7 |          9 |
|          2 | 2021010103 | D001       | 02001   | 0506      | 002       |        9 |         11 |
|          3 | 2021010105 | D001       | 02001   | 0806      | 003       |       10 |         12 |
|          4 | 2021010102 | D001       | 02001   | 0506      | 004       |        1 |          3 |
|          5 | 2021010106 | D001       | 02001   | 0806      | 004       |        4 |          6 |
|          6 | 2021010101 | D001       | 02001   | 0506      | 004       |        7 |          9 |
|          7 | 2021010104 | D001       | 02001   | 0506      | 005       |       10 |         12 |
|          8 | 2021010206 | D002       | 02037   | 0702      | 001       |        7 |         12 |
|          9 | 2021020202 | D002       | 02036   | 0708      | 003       |        2 |          4 |
|         10 | 2021010205 | D002       | 02037   | 0713      | 004       |        1 |          6 |
|         11 | 2021020209 | D002       | 02025   | 0719      | 004       |        7 |         12 |
|         12 | 2021020301 | D003       | 02012   | 0508      | 002       |        1 |          4 |
|         13 | 2021020302 | D003       | 02012   | 0508      | 002       |        1 |          4 |
|         14 | 2021010201 | D003       | 02017   | 0719      | 003       |        2 |          5 |
|         15 | 2021010202 | D003       | 02017   | 0719      | 003       |        2 |          5 |
|         16 | 2021010203 | D003       | 02017   | 0507      | 005       |        2 |          5 |
|         17 | 2021010106 | D004       | 02028   | 0704      | 001       |        1 |          3 |
|         18 | 2021020203 | D004       | 02032   | 0507      | 001       |       10 |         12 |
|         19 | 2021010201 | D004       | 02034   | 0617      | 002       |        7 |         12 |
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|         30 | 2021010105 | D006       | 02030   | 0618      | 004       |        1 |          6 |
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|         32 | 2021010204 | D006       | 02037   | 0619      | 005       |        7 |         12 |
|         33 | 2021010103 | D007       | 02011   | 0705      | 002       |        2 |          6 |
|         34 | 2021020101 | D007       | 02038   | 0503      | 003       |        3 |          5 |
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|         36 | 2021010102 | D007       | 02011   | 0615      | 004       |        8 |         12 |
|         37 | 2021010101 | D007       | 02011   | 0703      | 005       |        2 |          6 |
|         38 | 2021010306 | D008       | 02012   | 0619      | 001       |        2 |          5 |
|         39 | 2021020203 | D008       | 02036   | 0716      | 003       |        2 |          4 |
|         40 | 2021020104 | D008       | 02038   | 0505      | 004       |        4 |          6 |
|         41 | 2021020105 | D008       | 02038   | 0505      | 004       |        4 |          6 |
|         42 | 2021010304 | D008       | 02012   | 0507      | 005       |        9 |         12 |
|         43 | 2021010305 | D008       | 02012   | 0507      | 005       |        9 |         12 |
|         44 | 2021020103 | D009       | 02035   | 0505      | 002       |        7 |         10 |
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|         46 | 2021020204 | D009       | 02005   | 0704      | 003       |        7 |         12 |
|         47 | 2021020203 | D009       | 02005   | 0705      | 005       |        1 |          6 |
|         48 | 2021010103 | D010       | 02026   | 0806      | 001       |        3 |          4 |
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C:\Windows\system32\cmd.exe - mysql -u root -p

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|         41 | 2021020105 | D008       | 02038   | 0505      | 004       |        4 |          6 |
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|         43 | 2021010305 | D008       | 02012   | 0507      | 005       |        9 |         12 |
|         44 | 2021020103 | D009       | 02035   | 0505      | 002       |        7 |         10 |
|         45 | 2021020104 | D009       | 02035   | 0505      | 002       |        7 |         10 |
|         46 | 2021020204 | D009       | 02005   | 0704      | 003       |        7 |         12 |
|         47 | 2021020203 | D009       | 02005   | 0705      | 005       |        1 |          6 |
|         48 | 2021010103 | D010       | 02026   | 0806      | 001       |        3 |          4 |
|         49 | 2021010202 | D010       | 02023   | 0704      | 001       |        8 |         11 |
|         50 | 2021010202 | D010       | 02023   | 0713      | 002       |        7 |         10 |
|         51 | 2021010201 | D010       | 02023   | 0705      | 003       |        7 |         10 |
|         52 | 2021010201 | D010       | 02023   | 0716      | 005       |        8 |         11 |
|         53 | 2021010201 | D011       | 02019   | 0718      | 002       |        1 |          5 |
|         54 | 2021010203 | D011       | 02019   | 0706      | 004       |        1 |          5 |
|         55 | 2021010204 | D011       | 02019   | 0716      | 004       |        8 |         12 |
|         56 | 2021010202 | D011       | 02019   | 0706      | 005       |        1 |          5 |
|         57 | 2021020204 | D012       | 02018   | 0702      | 001       |        1 |          5 |
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|         59 | 2021010204 | D012       | 02020   | 0704      | 002       |        9 |         11 |
|         60 | 2021010302 | D013       | 02008   | 0805      | 002       |        4 |          6 |
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|         62 | 2021010301 | D013       | 02009   | 0717      | 003       |        4 |          6 |
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|         64 | 2021020401 | D013       | 02009   | 0717      | 004       |        4 |          6 |
|         65 | 2021020107 | D013       | 02008   | 0717      | 005       |        2 |          4 |
|         66 | 2021020102 | D013       | 02008   | 0506      | 005       |        7 |          9 |
|         67 | 2021020301 | D014       | 02017   | 0720      | 004       |        1 |          4 |
|         68 | 2021020302 | D014       | 02017   | 0720      | 004       |        1 |          4 |
|         69 | 2021020303 | D014       | 02017   | 0714      | 005       |        2 |          5 |
|         70 | 2021020308 | D014       | 02017   | 0714      | 005       |        7 |         10 |
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|         77 | 2021010103 | D016       | 02038   | 0501      | 004       |        4 |          6 |
|         78 | 2021010104 | D016       | 02038   | 0501      | 004       |        4 |          6 |
|         79 | 2021020204 | D016       | 02033   | 0719      | 005       |        7 |         12 |
|         80 | 2021020106 | D017       | 02004   | 0805      | 004       |        3 |          6 |
|         81 | 2021020302 | D017       | 02027   | 0702      | 004       |        7 |         12 |
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|  85 | 2021010203 | D018  | 02013 | 0501 | 001 |       10 |      12 |
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|  87 | 2021020301 | D019  | 02022 | 0620 | 001 |        7 |      12 |
|  88 | 2021020302 | D019  | 02022 | 0702 | 005 |        1 |       6 |
|  89 | 2021020108 | D020  | 02004 | 0502 | 004 |        9 |      12 |
|  90 | 2021020107 | D020  | 02004 | 0502 | 005 |        7 |      10 |
|  91 | 2021020207 | D021  | 02005 | 0615 | 001 |        1 |       6 |
|  92 | 2021020207 | D021  | 02032 | 0707 | 002 |        1 |       3 |
|  93 | 2021020207 | D021  | 02033 | 0718 | 003 |        1 |       6 |
|  94 | 2021010303 | D021  | 02012 | 0703 | 003 |        8 |      11 |
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|  96 | 2021010205 | D022  | 02033 | 0706 | 003 |        7 |      12 |
|  97 | 2021020306 | D022  | 02012 | 0504 | 005 |        1 |       4 |
|  98 | 2021010205 | D023  | 02023 | 0508 | 001 |        1 |       4 |
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| 110 | 2021020305 | D025  | 02017 | 0620 | 005 |        1 |       4 |
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| 115 | 2021010106 | D027  | 02035 | 0707 | 003 |        1 |       4 |
| 116 | 2021020103 | D027  | 02010 | 0615 | 001 |        5 |      10 |
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| 118 | 2021010104 | D028  | 02026 | 0504 | 002 |        1 |       4 |
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| 121 | 2021010105 | D028  | 02026 | 0505 | 003 |        3 |       6 |
| 122 | 2021010106 | D028  | 02026 | 0505 | 003 |        3 |       6 |
| 123 | 2021020209 | D029  | 02032 | 0503 | 001 |        7 |       9 |
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| 128 | 2021020207 | D029  | 02036 | 0501 | 005 |        1 |       3 |
| 129 | 2021020109 | D030  | 02010 | 0716 | 001 |        5 |      10 |
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| 133 | 2021020108 | D030  | 02030 | 0615 | 005 |        1 |       6 |
| 134 | 2021020202 | D031  | 02032 | 0507 | 001 |        7 |       9 |
| 135 | 2021010203 | D031  | 02020 | 0718 | 002 |        7 |       9 |
| 136 | 2021010201 | D031  | 02020 | 0501 | 004 |        7 |       9 |
| 137 | 2021010202 | D031  | 02020 | 0501 | 004 |        7 |       9 |
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| 139 | 2021020104 | D032  | 02008 | 0806 | 001 |        7 |       9 |
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| 141 | 2021020403 | D032  | 02009 | 0502 | 002 |       10 |      12 |
| 142 | 2021010304 | D032  | 02009 | 0506 | 003 |        4 |       6 |
| 143 | 2021020402 | D032  | 02009 | 0504 | 004 |        4 |       6 |
| 144 | 2021020105 | D032  | 02009 | 0717 | 004 |        8 |      10 |
| 145 | 2021010303 | D032  | 02009 | 0806 | 005 |        7 |       9 |
| 146 | 2021020203 | D033  | 02037 | 0716 | 003 |        7 |      12 |
| 147 | 2021020108 | D034  | 02008 | 0502 | 001 |        1 |       3 |
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| 150 | 2021010306 | D034  | 02009 | 0506 | 004 |        4 |       6 |
| 151 | 2021020208 | D035  | 02018 | 0618 | 002 |        2 |       6 |
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| 157 | 2021020303 | D036  | 02022 | 0704 | 002 |        1 |       6 |
| 158 | 2021020202 | D036  | 02025 | 0706 | 002 |        7 |      12 |
| 166 | 2021020307 | D038  | 02012 | 0714 | 002 |        2 |       5 |
| 167 | 2021020209 | D038  | 02020 | 0620 | 003 |       10 |      12 |
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| 173 | 2021010102 | D039  | 02040 | 0617 | 003 |        8 |      12 |
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192	2021010205	D044	02021	0618	001	10	12
193	2021010206	D044	02021	0618	001	10	12
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249	2021020107	D056	02029	0702	003	7	12
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253	2021020303	D058	02041	0720	003	1	6
254	2021020208	D058	02033	0716	004	1	6
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259	2021010204	D059	02023	0718	005	2	5
260	2021010203	D059	02023	0715	005	8	11
261	2021020308	D060	02039	0619	001	7	12

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140	2021020103	D032	02008	0717	002	1	3
141	2021020403	D032	02009	0502	002	10	12
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168	2021010301	D038	02012	0503	005	1	4
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170	2021010101	D039	02040	0503	001	1	3
171	2021010102	D039	02040	0503	001	1	3
172	2021020209	D039	02037	0703	002	1	6
173	2021010102	D039	02040	0617	003	8	12
174	2021010101	D039	02040	0617	004	2	6
175	2021020109	D040	02003	0713	001	9	11
176	2021010202	D040	02033	0619	003	7	12
177	2021020109	D040	02003	0718	004	7	12
178	2021010101	D041	02038	0507	001	4	6
179	2021010102	D041	02038	0507	001	4	6
180	2021010101	D041	02028	0501	002	1	3
181	2021010102	D041	02028	0501	002	1	3
182	2021020205	D042	02037	0703	001	7	12
183	2021020204	D042	02037	0715	004	7	12
184	2021020101	D042	02035	0505	005	2	5
185	2021020102	D042	02035	0505	005	2	5
186	2021010204	D043	02017	0705	001	2	5
187	2021010205	D043	02017	0505	002	2	5
188	2021010204	D043	02017	0505	002	2	5

185	2021020102	D042	02035	0505	005	2	5
186	2021010204	D043	02017	0705	001	2	5
187	2021010205	D043	02017	0505	002	2	5
188	2021010204	D043	02017	0505	002	2	5
189	2021020208	D043	02036	0507	004	7	9
190	2021020205	D043	02025	0720	005	1	6
191	2021020201	D044	02032	0706	001	3	5
192	2021010205	D044	02021	0618	001	10	12
193	2021010206	D044	02021	0618	001	10	12
194	2021020206	D044	02020	0707	004	3	5
195	2021020207	D044	02020	0707	004	3	5
196	2021020201	D044	02033	0713	004	7	12
197	2021020208	D045	02037	0718	001	1	6
198	2021020107	D045	02010	0702	001	5	10
199	2021020107	D045	02030	0615	003	1	6
200	2021020207	D045	02037	0619	004	7	12
201	2021020103	D046	02003	0501	001	4	6
202	2021020101	D046	02010	0617	001	5	10
203	2021020101	D046	02030	0704	004	1	6
204	2021020209	D046	02018	0707	005	1	5
205	2021020103	D046	02003	0702	005	7	12
206	2021020308	D047	02022	0620	001	1	6
207	2021020203	D047	02020	0805	001	7	9
208	2021020201	D047	02020	0620	002	1	3
209	2021020202	D047	02020	0620	002	1	3
210	2021020307	D047	02022	0715	003	1	6
211	2021020305	D048	02027	0716	002	1	6
212	2021020201	D048	02025	0503	004	1	6
213	2021020208	D048	02025	0713	005	1	6
214	2021020306	D048	02027	0620	005	7	12
215	2021010106	D049	02010	0716	001	5	10
216	2021020204	D049	02025	0719	002	1	6
217	2021020203	D049	02025	0703	002	7	12
218	2021010106	D049	02030	0706	004	7	12
219	2021020106	D050	02001	0717	001	4	6
220	2021020103	D050	02001	0506	001	7	9
221	2021020105	D050	02001	0504	001	10	12
222	2021020109	D050	02001	0805	003	1	3
223	2021020102	D050	02001	0504	003	8	10
224	2021020104	D050	02001	0805	004	7	9
225	2021020107	D050	02001	0805	004	10	12
226	2021020108	D050	02001	0805	005	7	9
227	2021020206	D051	02037	0715	001	1	6
228	2021020208	D051	02020	0508	003	2	4

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| 229 | 2021020306 | D051 | 02039 | 0701 | 003 |      7 |   12 |
| 230 | 2021020305 | D051 | 02039 | 0619 | 004 |      1 |    6 |
| 231 | 2021010104 | D052 | 02010 | 0701 | 001 |      5 |   10 |
| 232 | 2021020201 | D052 | 02005 | 0708 | 002 |      7 |   12 |
| 233 | 2021020202 | D052 | 02005 | 0720 | 003 |      7 |   12 |
| 234 | 2021010104 | D052 | 02030 | 0618 | 005 |      1 |    6 |
| 235 | 2021020105 | D053 | 02010 | 0708 | 001 |      5 |   10 |
| 236 | 2021020105 | D053 | 02030 | 0704 | 005 |      7 |   12 |
| 237 | 2021020101 | D054 | 02003 | 0703 | 001 |      2 |    4 |
| 238 | 2021020102 | D054 | 02003 | 0703 | 001 |      2 |    4 |
| 239 | 2021010205 | D054 | 02013 | 0501 | 001 |      7 |    9 |
| 240 | 2021020102 | D054 | 02029 | 0620 | 002 |      7 |   12 |
| 241 | 2021020101 | D054 | 02029 | 0720 | 004 |      7 |   12 |
| 242 | 2021020106 | D055 | 02003 | 0716 | 001 |      1 |    3 |
| 243 | 2021020304 | D055 | 02027 | 0718 | 004 |      1 |    6 |
| 244 | 2021020106 | D055 | 02029 | 0618 | 004 |      7 |   12 |
| 245 | 2021020303 | D055 | 02027 | 0718 | 005 |      7 |   12 |
| 246 | 2021020107 | D056 | 02003 | 0708 | 001 |      4 |    6 |
| 247 | 2021020303 | D056 | 02015 | 0715 | 001 |      7 |   12 |
| 248 | 2021020304 | D056 | 02015 | 0713 | 003 |      1 |    6 |
| 249 | 2021020107 | D056 | 02029 | 0702 | 003 |      7 |   12 |
| 250 | 2021020201 | D057 | 02037 | 0720 | 001 |      7 |   12 |
| 251 | 2021020305 | D057 | 02041 | 0618 | 005 |      7 |   12 |
| 252 | 2021020208 | D058 | 02032 | 0502 | 001 |     10 |   12 |
| 253 | 2021020303 | D058 | 02041 | 0720 | 003 |      1 |    6 |
| 254 | 2021020208 | D058 | 02033 | 0716 | 004 |      1 |    6 |
| 255 | 2021020304 | D058 | 02041 | 0615 | 005 |      7 |   12 |
| 256 | 2021010203 | D059 | 02023 | 0719 | 001 |      1 |    4 |
| 257 | 2021010204 | D059 | 02023 | 0702 | 002 |      2 |    5 |
| 258 | 2021020207 | D059 | 02025 | 0701 | 002 |      7 |   12 |
| 259 | 2021010204 | D059 | 02023 | 0718 | 005 |      2 |    5 |
| 260 | 2021010203 | D059 | 02023 | 0715 | 005 |      8 |   11 |
| 261 | 2021020308 | D060 | 02039 | 0619 | 001 |      7 |   12 |
| 262 | 2021020201 | D060 | 02018 | 0615 | 003 |      7 |   11 |
| 263 | 2021020202 | D060 | 02018 | 0708 | 005 |      1 |    5 |
| 264 | 2021020307 | D060 | 02039 | 0708 | 005 |      7 |   12 |
| 265 | 2021020101 | D061 | 02004 | 0717 | 002 |      9 |   12 |
| 266 | 2021020104 | D061 | 02004 | 0504 | 003 |      3 |    6 |
| 267 | 2021020105 | D061 | 02004 | 0805 | 003 |      7 |   10 |
| 268 | 2021020102 | D061 | 02004 | 0806 | 004 |      8 |   11 |
| 269 | 2021020103 | D061 | 02004 | 0806 | 005 |      2 |    5 |
| 270 | 2021010106 | D062 | 02011 | 0615 | 002 |      7 |   11 |
| 271 | 2021010104 | D062 | 02011 | 0703 | 004 |      8 |   12 |
| 272 | 2021010105 | D062 | 02011 | 0715 | 005 |      1 |    5 |
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| 292 | 2021020104 | D067 | 02029 | 0703 | 005 |      7 |   12 |
| 293 | 2021020308 | D068 | 02027 | 0714 | 002 |      7 |   12 |
| 294 | 2021020307 | D068 | 02027 | 0703 | 004 |      1 |    6 |
| 295 | 2021020303 | D069 | 02039 | 0618 | 002 |      7 |   12 |
| 296 | 2021010206 | D069 | 02033 | 0702 | 004 |      1 |    6 |
| 297 | 2021020406 | D070 | 02009 | 0502 | 001 |      4 |    6 |
| 298 | 2021020405 | D070 | 02009 | 0806 | 001 |     10 |   12 |
| 299 | 2021020404 | D070 | 02009 | 0717 | 002 |      4 |    6 |
| 300 | 2021020407 | D070 | 02009 | 0806 | 003 |      4 |    6 |
| 301 | 2021020306 | D071 | 02017 | 0505 | 001 |      1 |    4 |
| 302 | 2021020307 | D071 | 02017 | 0505 | 001 |      1 |    4 |
| 303 | 2021020108 | D071 | 02003 | 0714 | 001 |      7 |    9 |
| 304 | 2021020308 | D071 | 02017 | 0501 | 003 |      1 |    4 |
| 305 | 2021020108 | D071 | 02029 | 0719 | 004 |      1 |    6 |
| 306 | 2021010303 | D072 | 02014 | 0720 | 001 |      1 |    3 |
| 307 | 2021010304 | D072 | 02014 | 0720 | 001 |      1 |    3 |
| 308 | 2021010305 | D072 | 02014 | 0714 | 001 |     10 |   12 |
| 309 | 2021010306 | D072 | 02014 | 0714 | 001 |     10 |   12 |
| 310 | 2021010301 | D072 | 02014 | 0501 | 005 |      7 |    9 |
| 311 | 2021010302 | D072 | 02014 | 0501 | 005 |      7 |    9 |
| 312 | 2021020305 | D073 | 02012 | 0714 | 003 |      1 |    4 |
| 313 | 2021020106 | D074 | 02038 | 0507 | 002 |      3 |    5 |
| 314 | 2021020107 | D074 | 02038 | 0507 | 002 |      3 |    5 |
| 315 | 2021020109 | D074 | 02038 | 0805 | 002 |     10 |   12 |
| 316 | 2021020108 | D074 | 02038 | 0806 | 003 |      7 |    9 |
| 317 | 2021010206 | D074 | 02019 | 0719 | 005 |      1 |    5 |
| 318 | 2021010205 | D074 | 02019 | 0713 | 005 |      7 |   11 |
| 319 | 2021010105 | D075 | 02028 | 0501 | 001 |      1 |    3 |
| 320 | 2021020304 | D075 | 02039 | 0706 | 002 |      1 |    6 |
| 321 | 2021020301 | D075 | 02039 | 0618 | 003 |      1 |    6 |
| 322 | 2021010103 | D075 | 02028 | 0503 | 003 |      8 |   10 |
| 323 | 2021010104 | D075 | 02028 | 0503 | 003 |      8 |   10 |
| 324 | 2021020303 | D076 | 02012 | 0618 | 001 |      1 |    4 |
| 325 | 2021020304 | D076 | 02012 | 0618 | 001 |      1 |    4 |
| 326 | 2021020307 | D076 | 02015 | 0701 | 001 |      7 |   12 |
| 327 | 2021020308 | D076 | 02015 | 0718 | 003 |      7 |   12 |
| 328 | 2021020306 | D077 | 02015 | 0705 | 001 |      7 |   12 |
| 329 | 2021020202 | D077 | 02037 | 0715 | 004 |      1 |    6 |
| 330 | 2021020205 | D078 | 02018 | 0615 | 002 |      1 |    5 |
| 331 | 2021020301 | D078 | 02015 | 0715 | 002 |      7 |   12 |
| 332 | 2021020302 | D078 | 02015 | 0617 | 003 |      1 |    6 |
| 333 | 2021020206 | D078 | 02018 | 0706 | 005 |      8 |   12 |
| 334 | 2021010105 | D079 | 02040 | 0503 | 002 |      4 |    6 |
| 335 | 2021010106 | D079 | 02040 | 0503 | 002 |      4 |    6 |
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  328 | 2021020306 | D077 | 02015 | 0705 | 001 |    7 | 12 |
  329 | 2021020202 | D077 | 02037 | 0715 | 004 |    1 |  6 |
  330 | 2021020205 | D078 | 02018 | 0615 | 002 |    1 |  5 |
  331 | 2021020301 | D078 | 02015 | 0715 | 002 |    7 | 12 |
  332 | 2021020302 | D078 | 02015 | 0617 | 003 |    1 |  6 |
  333 | 2021020206 | D078 | 02018 | 0706 | 005 |    8 | 12 |
  334 | 2021010105 | D079 | 02040 | 0503 | 002 |    4 |  6 |
  335 | 2021010106 | D079 | 02040 | 0503 | 002 |    4 |  6 |
  336 | 2021010105 | D079 | 02031 | 0705 | 002 |    8 | 12 |
  337 | 2021010106 | D079 | 02031 | 0715 | 003 |    8 | 12 |
  338 | 2021020105 | D079 | 02035 | 0506 | 005 |    2 |  5 |
  339 | 2021010103 | D080 | 02040 | 0505 | 001 |    7 |  9 |
  340 | 2021010104 | D080 | 02040 | 0505 | 001 |    7 |  9 |
  341 | 2021020109 | D080 | 02035 | 0506 | 002 |    1 |  4 |
  342 | 2021010104 | D080 | 02031 | 0701 | 003 |    2 |  6 |
  343 | 2021010103 | D080 | 02031 | 0508 | 004 |    8 | 12 |
  344 | 2021020405 | D081 | 02014 | 0507 | 001 |    1 |  3 |
  345 | 2021020406 | D081 | 02014 | 0507 | 001 |    1 |  3 |
  346 | 2021020403 | D081 | 02014 | 0503 | 002 |    1 |  3 |
  347 | 2021020404 | D081 | 02014 | 0503 | 002 |    1 |  3 |
  348 | 2021020407 | D081 | 02014 | 0506 | 003 |    8 | 10 |
  349 | 2021020401 | D081 | 02014 | 0501 | 004 |    1 |  3 |
  350 | 2021020402 | D081 | 02014 | 0501 | 004 |    1 |  3 |
  351 | 2021010202 | D082 | 02013 | 0806 | 002 |    1 |  3 |
  352 | 2021010101 | D082 | 02010 | 0707 | 001 |    5 | 10 |
  353 | 2021010102 | D082 | 02010 | 0707 | 001 |    5 | 10 |
  354 | 2021010101 | D082 | 02030 | 0720 | 002 |    7 | 12 |
  355 | 2021010102 | D082 | 02030 | 0508 | 005 |    1 |  6 |
  356 | 2021020106 | D083 | 02010 | 0617 | 001 |    5 | 10 |
  357 | 2021020302 | D083 | 02041 | 0508 | 002 |    7 | 12 |
  358 | 2021020106 | D083 | 02030 | 0719 | 003 |    7 | 12 |
  359 | 2021020301 | D083 | 02041 | 0708 | 004 |    7 | 12 |
  360 | 2021020205 | D084 | 02032 | 0708 | 001 |    1 |  3 |
  361 | 2021010203 | D084 | 02033 | 0620 | 003 |    1 |  6 |
  362 | 2021020204 | D084 | 02020 | 0505 | 004 |    1 |  3 |
  363 | 2021020205 | D084 | 02020 | 0505 | 004 |    1 |  3 |
  364 | 2021020205 | D084 | 02033 | 0620 | 004 |    7 | 12 |
  365 | 2021010202 | D085 | 02006 | 0504 | 001 |    1 |  3 |
  366 | 2021010204 | D085 | 02006 | 0502 | 001 |    7 |  9 |
  367 | 2021010205 | D085 | 02006 | 0504 | 002 |    7 |  9 |
  368 | 2021010203 | D085 | 02006 | 0806 | 002 |   10 | 12 |
  369 | 2021010206 | D085 | 02006 | 0806 | 003 |    1 |  3 |
  370 | 2021010201 | D085 | 02006 | 0502 | 004 |    2 |  4 |
```

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+------------+------------+-----------+----------+------------+----------+-----------+------------+
355 rows in set (0.001 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM prodi;
+------------+-------------------------+
| kode_prodi | nama_prodi              |
+------------+-------------------------+
| 001        | D3 Manajemen Informatika |
| 002        | D4 Teknik Informatika   |
+------------+-------------------------+
2 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM kelas;
+------------+------------+------------+
| kode_kelas | kode_prodi | nama_kelas |
+------------+------------+------------+
| 2021010101 | 001        | MI-1A      |
| 2021010102 | 001        | MI-1B      |
| 2021010103 | 001        | MI-1C      |
| 2021010104 | 001        | MI-1D      |
| 2021010105 | 001        | MI-1E      |
| 2021010106 | 001        | MI-1F      |
| 2021010107 | 001        | MI-1H      |
| 2021010201 | 001        | MI-2A      |
| 2021010202 | 001        | MI-2B      |
| 2021010203 | 001        | MI-2C      |
| 2021010204 | 001        | MI-2D      |
| 2021010205 | 001        | MI-2E      |
| 2021010206 | 001        | MI-2F      |
| 2021010301 | 001        | MI-3A      |
| 2021010302 | 001        | MI-3B      |
| 2021010303 | 001        | MI-3C      |
| 2021010304 | 001        | MI-3D      |
| 2021010305 | 001        | MI-3E      |
| 2021010306 | 001        | MI-3F      |
| 2021020101 | 002        | TI-1A      |
| 2021020102 | 002        | TI-1B      |
| 2021020103 | 002        | TI-1C      |
| 2021020104 | 002        | TI-1D      |
| 2021020105 | 002        | TI-1E      |
| 2021020106 | 002        | TI-1F      |
| 2021020107 | 002        | TI-1G      |
| 2021020108 | 002        | TI-1H      |
| 2021020109 | 002        | TI-1I      |
```

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| 2021020109 | 002 | TI-1I |
| 2021020201 | 002 | TI-2A |
| 2021020202 | 002 | TI-2B |
| 2021020203 | 002 | TI-2C |
| 2021020204 | 002 | TI-2D |
| 2021020205 | 002 | TI-2E |
| 2021020206 | 002 | TI-2F |
| 2021020207 | 002 | TI-2G |
| 2021020208 | 002 | TI-2H |
| 2021020209 | 002 | TI-2I |
| 2021020301 | 002 | TI-3A |
| 2021020302 | 002 | TI-3B |
| 2021020303 | 002 | TI-3C |
| 2021020304 | 002 | TI-3D |
| 2021020305 | 002 | TI-3E |
| 2021020306 | 002 | TI-3F |
| 2021020307 | 002 | TI-3G |
| 2021020308 | 002 | TI-3H |
| 2021020401 | 002 | TI-4A |
| 2021020402 | 002 | TI-4B |
| 2021020403 | 002 | TI-4C |
| 2021020404 | 002 | TI-4D |
| 2021020405 | 002 | TI-4E |
| 2021020406 | 002 | TI-4F |
| 2021020407 | 002 | TI-4G |
+------------+------------+------------+
52 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM ruang;
+------------+------------+--------------------------------+
| kode_ruang | nama_ruang | deskripsi_ruang                |
+------------+------------+--------------------------------+
| 0501       | RT01       | Ruang Teori 1                  |
| 0502       | RT02       | Ruang Teori 2                  |
| 0503       | RT03       | Ruang Teori 3                  |
| 0504       | RT04       | Ruang Teori 4                  |
| 0505       | RT05       | Ruang Teori 5                  |
| 0506       | RT06       | Ruang Teori 6                  |
| 0507       | RT07       | Ruang Teori 7                  |
| 0508       | LPY1       | Laboratorium Proyek 1          |
| 0615       | LSI1       | Laboratorium Sistem Informasi 1 |
| 0617       | LSI2       | Laboratorium Sistem Informasi 2 |
| 0618       | LSI3       | Laboratorium Sistem Informasi 3 |
| 0619       | LPY2       | Laboratorium Proyek 2          |
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| 0619 | LPY2  | Laboratorium Proyek 2            |
| 0620 | LPY3  | Laboratorium Proyek 3            |
| 0701 | LPR1  | Laboratorium Pemrograman 1       |
| 0702 | LPR2  | Laboratorium Pemrograman 2       |
| 0703 | LPR3  | Laboratorium Pemrograman 3       |
| 0704 | LPR4  | Laboratorium Pemrograman 4       |
| 0705 | LPR5  | Laboratorium Pemrograman 5       |
| 0706 | LPR6  | Laboratorium Pemrograman 6       |
| 0707 | LKJ1  | Laboratorium Keamanan Jaringan 1 |
| 0708 | LPR7  | Laboratorium Pemrograman 7       |
| 0713 | LKJ2  | Laboratorium Keamanan Jaringan 2 |
| 0714 | LPR8  | Laboratorium Pemrograman 8       |
| 0715 | LKJ3  | Laboratorium Keamanan Jaringan 3 |
| 0716 | LIG1  | Laboratorium Visi Komputer 1     |
| 0717 | RT08  | Ruang Teori 8                   |
| 0718 | LIG2  | Laboratorium Visi Komputer 2     |
| 0719 | LPY4  | Laboratorium Proyek 4           |
| 0720 | LAI1  | Laboratorium Kecerdasan Buatan 1 |
| 0801 | L DTS | Laboratorium DTS                |
| 0805 | RT09  | Ruang Teori 9                   |
| 0806 | RT10  | Ruang Teori 10                  |
| 1001 | RT11  | Ruang Teori 11                  |
| 1002 | ROL1  | Ruang Online 1                  |
| 1003 | ROL2  | Ruang Online 2                  |
| 1004 | ROL3  | Ruang Online 3                  |
+------------+------------+--------------------------------+
36 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM hari;
+-----------+-----------+
| kode_hari | nama_hari |
+-----------+-----------+
| 001       | Senin     |
| 002       | Selasa    |
| 003       | Rabu      |
| 004       | Kamis     |
| 005       | Jumat     |
| 006       | Sabtu     |
| 007       | Minggu    |
+-----------+-----------+
7 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM dosen;
+-----------+----------------------------------------------+
```

```
MariaDB [jadwal_perkuliahan]> SELECT * FROM dosen;
+------------+------------------------------------------+
| kode_dosen | nama_dosen                               |
+------------+------------------------------------------+
| D001       | Abdul Chalim, SAg., MPd.I                |
| D002       | Ade Ismail                               |
| D003       | Agung Nugroho Pramudhita ST., MT.        |
| D004       | Ahmadi Yuli Ananta ST., MM.              |
| D005       | Ane Fany Novitasari, SH.MKn.             |
| D006       | Annisa Puspa Kirana MKom.                |
| D007       | Annisa Taufika Firdausi ST., MT.         |
| D008       | Anugrah Nur Rahmanto SSn., MDs.          |
| D009       | Ariadi Retno Ririd SKom., MKom.          |
| D010       | Arie Rachmad Syulistyo SKom., MKom.      |
| D011       | Arief Prasetyo SKom., MKom.              |
| D012       | Arwin Sumari ST., MT., DR.               |
| D013       | Atiqah Nurul Asri SPd., MPd.             |
| D014       | Bagas Satya Dian Nugraha, ST., MT.       |
| D015       | Banni Satria Andoko, S. Kom., M.MSI      |
| D016       | Budi Harijanto ST., MMKom.               |
| D017       | Cahya Rahmad ST., MKom. DR.Eng           |
| D018       | Candra Bella Vista SKom., MT.            |
| D019       | Candrasena Setiadi ST., MMT.             |
| D020       | Deasy Sandhya Elya Ikawati SSi., MSi.    |
| D021       | Deddy Kusbianto PA Ir. MMKom.            |
| D022       | Dhebys Suryani SKom. MT.                 |
| D023       | Dian Hanifudin Subhi SKom., MT.          |
| D024       | Dika Rizky Yunianto SKom., MKom.         |
| D025       | Dimas Wahyu Wibowo ST., MT.              |
| D026       | Dodit Supriyanto SKom., MT.              |
| D027       | Dwi Puspitasari SKom., MKom.             |
| D028       | Eka Larasati Amalia, SST., MT.           |
| D029       | Ekojono, ST., M.Kom.                     |
| D030       | Elok Nur Hamdana, ST., MT                |
| D031       | Erfan Rohadi, ST., MEng., PhD.           |
| D032       | Faiz Ushbah Mubarok, SPd., MPd.          |
| D033       | Farid Angga Pribadi, SKom.,MKom.         |
| D034       | Farida Ulfa, SPd., MPd.                  |
| D035       | Gunawan Budi Prasetyo, ST., MMT., Ph.D.  |
| D036       | Habibie Ed Dien, MT.                     |
| D037       | Hairus                                   |
| D038       | Hendra Pradibta, SE., M.Sc.              |
| D039       | Ika Kusumaning Putri, MT.                |
| D040       | Imam Fahrur Rozi, ST., MT.               |
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| D040       | Imam Fahrur Rozi, ST., MT.                    |
| D041       | Indra Dharma Wijaya, ST., MMT.                |
| D042       | Irsyad Arif Mashudi, M.Kom                    |
| D043       | Kadek Suarjuna Batubulan, SKom, MT.           |
| D044       | Luqman Affandi, SKom., MMSI.                  |
| D045       | M. Hasyim Ratsanjani                          |
| D046       | Mamluatul Haniah                              |
| D047       | Meyti Eka Apriyani ST., MT.                   |
| D048       | Milyun Nima Shoumi                            |
| D049       | Moch. Zawaruddin Abdullah, S.ST., M.Kom       |
| D050       | Moh. Amin                                     |
| D051       | Muhammad Afif Hendrawan, S.Kom.               |
| D052       | Muhammad Shulhan Khairy, SKom., MKom.         |
| D053       | Muhammad Unggul Pamenang, SSt., MT.           |
| D054       | Mungki Astiningrum, ST., MKom.                |
| D055       | Mustika Mentari, SKom., MKom.                 |
| D056       | Noprianto                                     |
| D057       | Odhitya Desta Triswidrananta, SPd., MPd.      |
| D058       | Pramana Yoga Saputra, SKom., MMT.             |
| D059       | Putra Prima A., ST., MKom.                    |
| D060       | Rakhmat Arianto SST., MKom.                   |
| D061       | Rawansyah., Drs., MPd.                        |
| D062       | Retno Damayanti, SPd.                         |
| D063       | Ridwan Rismanto, SST., MKom.                  |
| D064       | Rizki Putri Ramadhani, S.S., M.Pd.            |
| D065       | Rizky Ardiansyah, SKom., MT.                  |
| D066       | Robby Anggriawan SE., ME.                     |
| D067       | Rokhimatul Wakhidah SPd. MT.                  |
| D068       | Rosa Andrie Asmara, ST., MT., Dr. Eng.        |
| D069       | Rudy Ariyanto, ST., MCs.                      |
| D070       | Satrio Binusa S, SS, M.Pd                     |
| D071       | Septian Enggar Sukmana, SPd., MT.             |
| D072       | Shohib Muslim                                 |
| D073       | Siti Romlah, Dra., M.M.                       |
| D074       | Sofyan Noor Arief, S.ST., M.Kom.              |
| D075       | Ulla Delfiana Rosiani, ST., MT.               |
| D076       | Usman Nurhasan, S.Kom., MT.                   |
| D077       | Very Sugiarto, SPd., MKom.                    |
| D078       | Vipkas Al Hadid Firdaus, ST.,MT.              |
| D079       | Vivi Nur Wijayaningrum, S.Kom, M.Kom          |
| D080       | Vivin Ayu Lestari, SPd.                       |
| D081       | Widaningsih Condrowardhani, SH., MH.          |
| D082       | Wilda Imama Sabilla, S.Kom., M.Kom.           |
| D083       | Yoppy Yunhasnawa, SST., MSc.                  |
```

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| D083          | Yoppy Yunhasnawa, SST., MSc.          |
| D084          | Yuri Ariyanto, SKom., MKom.           |
| D085          | Zulmy Faqihuddin Putera, S.Pd., M.Pd  |
+---------------+---------------------------------------+
85 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM mk;
+---------+------------------------------------------------+
| kode_mk | nama_mk                                        |
+---------+------------------------------------------------+
| 02001   | Agama                                          |
| 02002   | Alajabar Linier                                |
| 02003   | Algoritma dan Struktur Data                    |
| 02004   | Aljabar Linier                                 |
| 02005   | Analisis Dan Desan Berorientasi Objek          |
| 02006   | Bahasa Indonesia                               |
| 02007   | Bahasa Inggris                                 |
| 02008   | Bahasa Inggris 2                               |
| 02009   | Bahasa Inggris Persiapan Kerja                 |
| 02010   | Basis Data Dasar                               |
| 02011   | Desain Pemrograman Web                         |
| 02012   | Digital Entrepreneurship                       |
| 02013   | E-Business                                     |
| 02014   | Etika Profesi Bidang TI                        |
| 02015   | Internet Of Things                             |
| 02016   | Kewarganegaraan                                |
| 02017   | Komputasi Multimedia                           |
| 02018   | Machine Learning                               |
| 02019   | Manajemen Jaringan Komputer                    |
| 02020   | Manajemen Proyek                               |
| 02021   | Manajemen Proyek                               |
| 02022   | Pemrograman Berbasis Framework                 |
| 02023   | Pemrograman Mobile                             |
| 02024   | Pemrograman Multimedia                         |
| 02025   | Pemrograman Web Lanjut                         |
| 02026   | Pengembangan Perangkat Lunak Berbasis Object   |
| 02027   | Pengolahan Citra dan Visi Komputer             |
| 02028   | Penulisan Ilmiah                               |
| 02029   | Praktikum Algoritma dan Struktur Data          |
| 02030   | Praktikum Basis Data                           |
| 02031   | Praktikum Struktur Data                        |
| 02032   | Proyek 1_P1                                    |
| 02033   | Proyek 1_P2                                    |
| 02034   | Proyek 2_P2                                    |
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| 02034   | Proyek 2_P2                  |
| 02035   | Rekayasa Perangkat Lunak     |
| 02036   | Sistem Informasi             |
| 02037   | Sistem Manajemen Basis Data  |
| 02038   | Sistem Operasi               |
| 02039   | Sistem Pendukung Keputusan   |
| 02040   | Struktur Data                |
| 02041   | Teknologi Data               |
| 02042   | Pancasila                    |
| 02043   | Bela Negara                  |
| 02044   | Wawasan Nusantara            |
+---------+------------------------------+
44 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM jp;
+---------+----------+------------+
| kode_jp | jp_mulai | jp_selesai |
+---------+----------+------------+
|       1 | 07:00:00 | 07:50:00   |
|       2 | 07:50:00 | 08:40:00   |
|       3 | 08:40:00 | 09:30:00   |
|       4 | 09:40:00 | 10:30:00   |
|       5 | 10:30:00 | 11:20:00   |
|       6 | 11:20:00 | 12:10:00   |
|       7 | 12:50:00 | 13:40:00   |
|       8 | 13:40:00 | 14:30:00   |
|       9 | 14:30:00 | 15:20:00   |
|      10 | 15:30:00 | 15:30:00   |
|      11 | 16:20:00 | 17:10:00   |
|      12 | 17:10:00 | 18:00:00   |
+---------+----------+------------+
12 rows in set (0.000 sec)
```

Praktikum 2

```
MariaDB [jadwal_perkuliahan]> SELECT deskripsi_ruang FROM ruang WHERE nama_ruang = 'LKJ1';
+--------------------------------+
| deskripsi_ruang                |
+--------------------------------+
| Laboratorium Keamanan Jaringan 1 |
+--------------------------------+
1 row in set (0.000 sec)
```

```
MariaDB [jadwal_perkuliahan]> SELECT DISTINCT kode_hari FROM jadwal;
+-----------+
| kode_hari |
+-----------+
| 001       |
| 002       |
| 003       |
| 004       |
| 005       |
+-----------+
5 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM ruang WHERE nama_ruang IN ('RT01', 'RT10');
+------------+------------+----------------+
| kode_ruang | nama_ruang | deskripsi_ruang |
+------------+------------+----------------+
| 0501       | RT01       | Ruang Teori 1  |
| 0806       | RT10       | Ruang Teori 10 |
+------------+------------+----------------+
2 rows in set (0.001 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM ruang WHERE kode_ruang BETWEEN '0501' AND '0508';
+------------+------------+----------------------+
| kode_ruang | nama_ruang | deskripsi_ruang      |
+------------+------------+----------------------+
| 0501       | RT01       | Ruang Teori 1        |
| 0502       | RT02       | Ruang Teori 2        |
| 0503       | RT03       | Ruang Teori 3        |
| 0504       | RT04       | Ruang Teori 4        |
| 0505       | RT05       | Ruang Teori 5        |
| 0506       | RT06       | Ruang Teori 6        |
| 0507       | RT07       | Ruang Teori 7        |
| 0508       | LPY1       | Laboratorium Proyek 1 |
+------------+------------+----------------------+
8 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM dosen WHERE nama_dosen LIKE 'E%';
+------------+------------------------------+
| kode_dosen | nama_dosen                   |
+------------+------------------------------+
| D028       | Eka Larasati Amalia, SST., MT. |
| D029       | Ekojono, ST., M.Kom.         |
| D030       | Elok Nur Hamdana, ST., MT    |
| D031       | Erfan Rohadi, ST., MEng., PhD. |
```

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| D031       | Erfan Rohadi, ST., MEng., PhD. |
+------------+------------------------------+
4 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT kode_dosen, kode_mk, kode_ruang, kode_hari FROM jadwal GROUP BY kode_hari;
+------------+---------+------------+-----------+
| kode_dosen | kode_mk | kode_ruang | kode_hari |
+------------+---------+------------+-----------+
| D001       | 02001   | 0504       | 001       |
| D001       | 02001   | 0506       | 002       |
| D001       | 02001   | 0806       | 003       |
| D001       | 02001   | 0506       | 004       |
| D001       | 02001   | 0506       | 005       |
+------------+---------+------------+-----------+
5 rows in set (0.001 sec)

MariaDB [jadwal_perkuliahan]> SELECT kode_jp, jp_mulai FROM jp ORDER BY jp_mulai;
+---------+----------+
| kode_jp | jp_mulai |
+---------+----------+
|       1 | 07:00:00 |
|       2 | 07:50:00 |
|       3 | 08:40:00 |
|       4 | 09:40:00 |
|       5 | 10:30:00 |
|       6 | 11:20:00 |
|       7 | 12:50:00 |
|       8 | 13:40:00 |
|       9 | 14:30:00 |
|      10 | 15:30:00 |
|      11 | 16:20:00 |
|      12 | 17:10:00 |
+---------+----------+
12 rows in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM jadwal WHERE kode_hari = '001' AND jp_mulai = 1;
+------------+------------+------------+---------+------------+-----------+----------+------------+
| kode_jadwal | kode_kelas | kode_dosen | kode_mk | kode_ruang | kode_hari | jp_mulai | jp_selesai |
+------------+------------+------------+---------+------------+-----------+----------+------------+
|         17 | 2021010106 | D004       | 02028   | 0704       | 001       |        1 |          3 |
|         57 | 2021020204 | D012       | 02018   | 0702       | 001       |        1 |          5 |
|         75 | 2021020103 | D016       | 02038   | 0506       | 001       |        1 |          3 |
|         84 | 2021020302 | D018       | 02039   | 0701       | 001       |        1 |          6 |
|         91 | 2021020207 | D021       | 02005   | 0615       | 001       |        1 |          6 |
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|    91 | 2021020207 | D021 |    02005 | 0615 | 001 |         1 |         6 |
|    98 | 2021010205 | D023 |    02023 | 0508 | 001 |         1 |         4 |
|   103 | 2021010201 | D024 |    02037 | 0713 | 001 |         1 |         6 |
|   107 | 2021020305 | D025 |    02024 | 0615 | 001 |         1 |         6 |
|   147 | 2021020108 | D034 |    02008 | 0502 | 001 |         1 |         3 |
|   170 | 2021010101 | D039 |    02040 | 0503 | 001 |         1 |         3 |
|   171 | 2021010102 | D039 |    02040 | 0503 | 001 |         1 |         3 |
|   197 | 2021020208 | D045 |    02037 | 0718 | 001 |         1 |         6 |
|   206 | 2021020308 | D047 |    02022 | 0620 | 001 |         1 |         6 |
|   227 | 2021020206 | D051 |    02037 | 0715 | 001 |         1 |         6 |
|   242 | 2021020106 | D055 |    02003 | 0716 | 001 |         1 |         3 |
|   256 | 2021010203 | D059 |    02023 | 0719 | 001 |         1 |         4 |
|   279 | 2021010301 | D064 |    02006 | 0805 | 001 |         1 |         3 |
|   301 | 2021020306 | D071 |    02017 | 0505 | 001 |         1 |         4 |
|   302 | 2021020307 | D071 |    02017 | 0505 | 001 |         1 |         4 |
|   306 | 2021010303 | D072 |    02014 | 0720 | 001 |         1 |         3 |
|   307 | 2021010304 | D072 |    02014 | 0720 | 001 |         1 |         3 |
|   319 | 2021010105 | D075 |    02028 | 0501 | 001 |         1 |         3 |
|   324 | 2021020303 | D076 |    02012 | 0618 | 001 |         1 |         4 |
|   325 | 2021020304 | D076 |    02012 | 0618 | 001 |         1 |         4 |
|   344 | 2021020405 | D081 |    02014 | 0507 | 001 |         1 |         3 |
|   345 | 2021020406 | D081 |    02014 | 0507 | 001 |         1 |         3 |
|   360 | 2021020205 | D084 |    02032 | 0708 | 001 |         1 |         3 |
|   365 | 2021010202 | D085 |    02006 | 0504 | 001 |         1 |         3 |
+-----------+------------+------+----------+------+-----+-----------+-----------+
28 rows in set (0.001 sec)

MariaDB [jadwal_perkuliahan]> SELECT kode_hari FROM hari UNION SELECT kode_hari FROM jadwal;
+-----------+
| kode_hari |
+-----------+
| 001       |
| 002       |
| 003       |
| 004       |
| 005       |
| 006       |
| 007       |
+-----------+
7 rows in set (0.001 sec)

MariaDB [jadwal_perkuliahan]> SELECT kode_hari FROM hari UNION ALL SELECT kode_hari FROM jadwal;
+-----------+
| kode_hari |
```

```
MariaDB [jadwal_perkuliahan]> SELECT kode_hari FROM hari UNION ALL SELECT kode_hari FROM jadwal;
+-----------+
| kode_hari |
+-----------+
| 001       |
| 002       |
| 003       |
| 004       |
| 005       |
| 006       |
| 007       |
| 001       |
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362 rows in set (0.001 sec)
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Praktikum 3

```
MariaDB [jadwal_perkuliahan]> SELECT kode_dosen, kode_mk, kode_hari, jp_mulai, jp_selesai FROM jadwal WHERE jp_selesai IN (SELECT MAX(jp_selesai)FROM jadwal);
+------------+---------+-----------+----------+------------+
| kode_dosen | kode_mk | kode_hari | jp_mulai | jp_selesai |
+------------+---------+-----------+----------+------------+
| D001       | 02001   | 003       |       10 |         12 |
| D001       | 02001   | 005       |       10 |         12 |
| D002       | 02037   | 001       |        7 |         12 |
| D002       | 02025   | 004       |        7 |         12 |
| D004       | 02032   | 001       |       10 |         12 |
| D004       | 02034   | 002       |        7 |         12 |
| D006       | 02037   | 004       |        7 |         12 |
| D006       | 02037   | 005       |        7 |         12 |
| D007       | 02011   | 004       |        8 |         12 |
| D008       | 02012   | 005       |        9 |         12 |
| D008       | 02012   | 005       |        9 |         12 |
| D009       | 02005   | 003       |        7 |         12 |
| D011       | 02019   | 004       |        8 |         12 |
| D015       | 02005   | 002       |        7 |         12 |
| D015       | 02005   | 003       |        7 |         12 |
| D015       | 02033   | 004       |        7 |         12 |
| D016       | 02033   | 005       |        7 |         12 |
| D017       | 02027   | 004       |        7 |         12 |
| D018       | 02013   | 001       |       10 |         12 |
| D018       | 02013   | 001       |       10 |         12 |
| D019       | 02022   | 001       |        7 |         12 |
| D020       | 02004   | 004       |        9 |         12 |
| D022       | 02033   | 003       |        7 |         12 |
| D024       | 02037   | 005       |        7 |         12 |
| D026       | 02015   | 003       |        7 |         12 |
| D031       | 02033   | 005       |        7 |         12 |
| D032       | 02009   | 002       |       10 |         12 |
| D033       | 02037   | 003       |        7 |         12 |
| D035       | 02041   | 002       |        7 |         12 |
| D035       | 02018   | 005       |        8 |         12 |
| D036       | 02022   | 001       |        7 |         12 |
| D036       | 02025   | 002       |        7 |         12 |
| D038       | 02020   | 003       |       10 |         12 |
| D039       | 02040   | 003       |        8 |         12 |
```

Select C:\Windows\system32\cmd.exe - mysql -u root -p

```
| D039       | 02040   | 003       |        8 |         12 |
| D040       | 02033   | 003       |        7 |         12 |
| D040       | 02003   | 004       |        7 |         12 |
| D042       | 02037   | 001       |        7 |         12 |
| D042       | 02037   | 004       |        7 |         12 |
| D044       | 02021   | 001       |       10 |         12 |
| D044       | 02021   | 001       |       10 |         12 |
| D044       | 02033   | 004       |        7 |         12 |
| D045       | 02037   | 004       |        7 |         12 |
| D046       | 02003   | 005       |        7 |         12 |
| D048       | 02027   | 005       |        7 |         12 |
| D049       | 02025   | 002       |        7 |         12 |
| D049       | 02030   | 004       |        7 |         12 |
| D050       | 02001   | 001       |       10 |         12 |
| D050       | 02001   | 004       |       10 |         12 |
| D051       | 02039   | 003       |        7 |         12 |
| D052       | 02005   | 002       |        7 |         12 |
| D052       | 02005   | 003       |        7 |         12 |
| D053       | 02030   | 005       |        7 |         12 |
| D054       | 02029   | 002       |        7 |         12 |
| D054       | 02029   | 004       |        7 |         12 |
| D055       | 02029   | 004       |        7 |         12 |
| D055       | 02027   | 005       |        7 |         12 |
| D056       | 02015   | 001       |        7 |         12 |
| D056       | 02029   | 003       |        7 |         12 |
| D057       | 02037   | 001       |        7 |         12 |
| D057       | 02041   | 005       |        7 |         12 |
| D058       | 02032   | 001       |       10 |         12 |
| D058       | 02041   | 005       |        7 |         12 |
| D059       | 02025   | 002       |        7 |         12 |
| D060       | 02039   | 001       |        7 |         12 |
| D060       | 02039   | 005       |        7 |         12 |
| D061       | 02004   | 002       |        9 |         12 |
| D062       | 02011   | 004       |        8 |         12 |
| D062       | 02038   | 005       |       10 |         12 |
| D062       | 02038   | 005       |       10 |         12 |
| D063       | 02005   | 002       |        7 |         12 |
| D063       | 02005   | 003       |        7 |         12 |
| D067       | 02013   | 004       |       10 |         12 |
| D067       | 02029   | 005       |        7 |         12 |
| D068       | 02027   | 002       |        7 |         12 |
| D069       | 02039   | 002       |        7 |         12 |
| D070       | 02009   | 001       |       10 |         12 |
| D072       | 02014   | 001       |       10 |         12 |
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| D072      | 02014   | 001       |        10 |        12 |
| D072      | 02014   | 001       |        10 |        12 |
| D074      | 02038   | 002       |        10 |        12 |
| D076      | 02015   | 001       |         7 |        12 |
| D076      | 02015   | 003       |         7 |        12 |
| D077      | 02015   | 001       |         7 |        12 |
| D078      | 02015   | 002       |         7 |        12 |
| D078      | 02018   | 005       |         8 |        12 |
| D079      | 02031   | 002       |         8 |        12 |
| D079      | 02031   | 003       |         8 |        12 |
| D080      | 02031   | 004       |         8 |        12 |
| D082      | 02030   | 002       |         7 |        12 |
| D083      | 02041   | 002       |         7 |        12 |
| D083      | 02030   | 003       |         7 |        12 |
| D083      | 02041   | 004       |         7 |        12 |
| D084      | 02033   | 004       |         7 |        12 |
| D085      | 02006   | 002       |        10 |        12 |
+-----------+---------+-----------+-----------+-----------+
93 rows in set (0.061 sec)

MariaDB [jadwal_perkuliahan]> SELECT kode_dosen, kode_mk, kode_hari, jp_mulai, jp_selesai FROM jadwal WHERE jp_selesai < ALL (SELECT jp_selesai FROM jadwal WHERE jp_sel
esai = 6);
+-----------+---------+-----------+-----------+-----------+
| kode_dosen | kode_mk | kode_hari | jp_mulai | jp_selesai |
+-----------+---------+-----------+-----------+-----------+
| D001      | 02001   | 004       |         1 |         3 |
| D002      | 02036   | 003       |         2 |         4 |
| D003      | 02012   | 002       |         1 |         4 |
| D003      | 02012   | 002       |         1 |         4 |
| D003      | 02017   | 003       |         2 |         5 |
| D003      | 02017   | 003       |         2 |         5 |
| D003      | 02017   | 005       |         2 |         5 |
| D004      | 02028   | 001       |         1 |         3 |
| D007      | 02038   | 003       |         3 |         5 |
| D007      | 02038   | 003       |         3 |         5 |
| D008      | 02012   | 001       |         2 |         5 |
| D008      | 02036   | 003       |         2 |         4 |
| D010      | 02026   | 001       |         3 |         4 |
| D011      | 02019   | 002       |         1 |         5 |
| D011      | 02019   | 004       |         1 |         5 |
| D011      | 02019   | 005       |         1 |         5 |
| D012      | 02018   | 001       |         1 |         5 |
| D012      | 02018   | 002       |         1 |         5 |
| D013      | 02008   | 005       |         2 |         4 |
```

```
| D013      | 02008   | 005       |         2 |         4 |
| D014      | 02017   | 004       |         1 |         4 |
| D014      | 02017   | 004       |         1 |         4 |
| D014      | 02017   | 005       |         2 |         5 |
| D015      | 02032   | 002       |         3 |         5 |
| D016      | 02038   | 001       |         1 |         3 |
| D021      | 02032   | 002       |         1 |         3 |
| D022      | 02012   | 005       |         1 |         4 |
| D023      | 02023   | 001       |         1 |         4 |
| D023      | 02023   | 005       |         1 |         4 |
| D025      | 02017   | 005       |         1 |         4 |
| D025      | 02017   | 005       |         1 |         4 |
| D027      | 02035   | 003       |         1 |         4 |
| D028      | 02026   | 002       |         1 |         4 |
| D029      | 02036   | 003       |         1 |         3 |
| D029      | 02036   | 003       |         1 |         3 |
| D029      | 02036   | 005       |         1 |         3 |
| D029      | 02036   | 005       |         1 |         3 |
| D030      | 02036   | 003       |         1 |         3 |
| D032      | 02008   | 002       |         1 |         3 |
| D034      | 02008   | 001       |         1 |         3 |
| D038      | 02012   | 002       |         2 |         5 |
| D038      | 02012   | 005       |         1 |         4 |
| D038      | 02012   | 005       |         1 |         4 |
| D039      | 02040   | 001       |         1 |         3 |
| D039      | 02040   | 001       |         1 |         3 |
| D041      | 02028   | 002       |         1 |         3 |
| D041      | 02028   | 002       |         1 |         3 |
| D042      | 02035   | 005       |         2 |         5 |
| D042      | 02035   | 005       |         2 |         5 |
| D043      | 02017   | 001       |         2 |         5 |
| D043      | 02017   | 002       |         2 |         5 |
| D043      | 02017   | 002       |         2 |         5 |
| D044      | 02032   | 001       |         3 |         5 |
| D044      | 02020   | 004       |         3 |         5 |
| D044      | 02020   | 004       |         3 |         5 |
| D046      | 02018   | 005       |         1 |         5 |
| D047      | 02020   | 002       |         1 |         3 |
| D047      | 02020   | 002       |         1 |         3 |
| D050      | 02001   | 003       |         1 |         3 |
| D051      | 02020   | 003       |         2 |         4 |
| D054      | 02003   | 001       |         2 |         4 |
| D054      | 02003   | 001       |         2 |         4 |
| D055      | 02003   | 001       |         1 |         3 |
```

```
| D055        | 02003   | 001      |          1 |           3 |
| D059        | 02023   | 001      |          1 |           4 |
| D059        | 02023   | 002      |          2 |           5 |
| D059        | 02023   | 005      |          2 |           5 |
| D060        | 02018   | 005      |          1 |           5 |
| D061        | 02004   | 005      |          2 |           5 |
| D062        | 02011   | 005      |          1 |           5 |
| D063        | 02026   | 003      |          1 |           4 |
| D063        | 02026   | 003      |          1 |           4 |
| D064        | 02006   | 001      |          1 |           3 |
| D064        | 02006   | 002      |          1 |           3 |
| D064        | 02006   | 003      |          1 |           3 |
| D064        | 02006   | 004      |          1 |           3 |
| D064        | 02006   | 005      |          2 |           4 |
| D071        | 02017   | 001      |          1 |           4 |
| D071        | 02017   | 001      |          1 |           4 |
| D071        | 02017   | 003      |          1 |           4 |
| D072        | 02014   | 001      |          1 |           3 |
| D072        | 02014   | 001      |          1 |           3 |
| D073        | 02012   | 003      |          1 |           4 |
| D074        | 02038   | 002      |          3 |           5 |
| D074        | 02038   | 002      |          3 |           5 |
| D074        | 02019   | 005      |          1 |           5 |
| D075        | 02028   | 001      |          1 |           3 |
| D076        | 02012   | 001      |          1 |           4 |
| D076        | 02012   | 001      |          1 |           4 |
| D078        | 02018   | 002      |          1 |           5 |
| D079        | 02035   | 005      |          2 |           5 |
| D080        | 02035   | 002      |          1 |           4 |
| D081        | 02014   | 001      |          1 |           3 |
| D081        | 02014   | 001      |          1 |           3 |
| D081        | 02014   | 002      |          1 |           3 |
| D081        | 02014   | 002      |          1 |           3 |
| D081        | 02014   | 004      |          1 |           3 |
| D081        | 02014   | 004      |          1 |           3 |
| D082        | 02013   | 002      |          1 |           3 |
| D084        | 02032   | 001      |          1 |           3 |
| D084        | 02020   | 004      |          1 |           3 |
| D084        | 02020   | 004      |          1 |           3 |
| D085        | 02006   | 001      |          1 |           3 |
| D085        | 02006   | 003      |          1 |           3 |
| D085        | 02006   | 004      |          2 |           4 |
+-------------+---------+----------+------------+-------------+
103 rows in set (0.001 sec)
```

Praktikum 4

```
MariaDB [jadwal_perkuliahan]> SELECT AVG(jp_selesai-jp_mulai) FROM jadwal;
+--------------------------+
| AVG(jp_selesai-jp_mulai) |
+--------------------------+
|                   3.4000 |
+--------------------------+
1 row in set (0.088 sec)

MariaDB [jadwal_perkuliahan]> SELECT MAX (jp_mulai) FROM jadwal;
ERROR 1630 (42000): FUNCTION jadwal_perkuliahan.MAX does not exist. Check the 'Function Name Parsing and Resolution' section in the Reference Manual
MariaDB [jadwal_perkuliahan]> SELECT MAX(jp_mulai) FROM jadwal;
+---------------+
| MAX(jp_mulai) |
+---------------+
|            10 |
+---------------+
1 row in set (0.000 sec)

MariaDB [jadwal_perkuliahan]> SELECT MIN(jp_mulai) FROM jadwal;
+---------------+
| MIN(jp_mulai) |
+---------------+
|             1 |
+---------------+
1 row in set (0.037 sec)

MariaDB [jadwal_perkuliahan]> SELECT SUM(jp_selesai-jp_mulai) FROM jadwal WHERE kode_dosen = 'D001';
+--------------------------+
| SUM(jp_selesai-jp_mulai) |
+--------------------------+
|                       14 |
+--------------------------+
1 row in set (0.038 sec)

MariaDB [jadwal_perkuliahan]> SELECT * FROM jadwal WHERE kode_dosen = 'D001';
+-------------+------------+------------+---------+-----------+-----------+----------+------------+
| kode_jadwal | kode_kelas | kode_dosen | kode_mk | kode_ruang | kode_hari | jp_mulai | jp_selesai |
+-------------+------------+------------+---------+-----------+-----------+----------+------------+
|           1 | 2021020101 | D001       | 02001   | 0504      | 001       |        7 |          9 |
|           2 | 2021010103 | D001       | 02001   | 0506      | 002       |        9 |         11 |
|           3 | 2021010105 | D001       | 02001   | 0806      | 003       |       10 |         12 |
|           4 | 2021010102 | D001       | 02001   | 0506      | 004       |        1 |          3 |
|           5 | 2021010106 | D001       | 02001   | 0806      | 004       |        4 |          6 |
|           6 | 2021010101 | D001       | 02001   | 0506      | 004       |        7 |          9 |
```

Tugas

1. Bagaimana sintaksis untuk menampilkan semua kolom jadwal pada hari kamis yang dimulai pada pukul 08:40 ? Tunjukkan outputnya!

2. Berapakah jumlah dosen yang mengajar pada hari selasa! Tunjukkan sintaksis dan outputnya! Kemudian tampilkan list semua kode dosen yang sesuai dengan kondisi tersebut! Tunjukkan sintaksis dan outputnya!

3. Tampilkan kode dosen yang mengajar pada hari kamis dari tabel jadwal yang nama depanya di awali dengan huruf A. gunakan operasi intersect! Tunjukkan sintaksis dan output dari pencarian tersebut.

```
MariaDB [jadwal_perkuliahan]> SELECT kode_dosen FROM jadwal WHERE kode_hari = (SELECT kode_hari FROM hari WHERE nama_hari = 'Kamis') INTERSECT SELECT kode_dosen FROM do
sen WHERE nama_dosen LIKE 'A%';
+------------+
| kode_dosen |
+------------+
| D001       |
| D002       |
| D004       |
| D006       |
| D007       |
| D008       |
| D011       |
| D013       |
+------------+
8 rows in set (0.001 sec)
```

4. Tampilkan kode_ruang tertentu pada hari tertentu dengan diurutkan berdasarkan dengan kode jam yang ter awal.

```
C:\Windows\system32\cmd.exe - mysql  -u root -p                                                                                                    —    □    ×
MariaDB [jadwal_perkuliahan]> SELECT kode_ruang, kode_hari, jp_mulai FROM jadwal WHERE kode_hari = (SELECT kode_hari FROM hari WHERE nama_hari = 'Senin') ORDER BY jp_mu
lai;
+------------+-----------+----------+
| kode_ruang | kode_hari | jp_mulai |
+------------+-----------+----------+
| 0718       | 001       |        1 |
| 0508       | 001       |        1 |
| 0713       | 001       |        1 |
| 0505       | 001       |        1 |
| 0615       | 001       |        1 |
| 0618       | 001       |        1 |
| 0805       | 001       |        1 |
| 0719       | 001       |        1 |
| 0716       | 001       |        1 |
| 0502       | 001       |        1 |
| 0715       | 001       |        1 |
| 0503       | 001       |        1 |
| 0503       | 001       |        1 |
| 0620       | 001       |        1 |
| 0615       | 001       |        1 |
| 0505       | 001       |        1 |
| 0507       | 001       |        1 |
| 0618       | 001       |        1 |
| 0702       | 001       |        1 |
| 0507       | 001       |        1 |
| 0704       | 001       |        1 |
| 0708       | 001       |        1 |
| 0506       | 001       |        1 |
| 0504       | 001       |        1 |
| 0701       | 001       |        1 |
| 0720       | 001       |        1 |
| 0720       | 001       |        1 |
| 0501       | 001       |        1 |
| 0705       | 001       |        2 |
| 0703       | 001       |        2 |
| 0703       | 001       |        2 |
| 0619       | 001       |        2 |
| 0706       | 001       |        3 |
| 0806       | 001       |        3 |
| 0506       | 001       |        4 |
| 0503       | 001       |        4 |
| 0717       | 001       |        4 |
| 0805       | 001       |        4 |
| 0501       | 001       |        4 |
```

```
| 0501    | 001    |           4 |
| 0502    | 001    |           4 |
| 0708    | 001    |           4 |
| 0704    | 001    |           4 |
| 0805    | 001    |           4 |
| 0507    | 001    |           4 |
| 0507    | 001    |           4 |
| 0707    | 001    |           5 |
| 0615    | 001    |           5 |
| 0716    | 001    |           5 |
| 0708    | 001    |           5 |
| 0615    | 001    |           5 |
| 0501    | 001    |           5 |
| 0501    | 001    |           5 |
| 0619    | 001    |           5 |
| 0617    | 001    |           5 |
| 0701    | 001    |           5 |
| 0617    | 001    |           5 |
| 0707    | 001    |           5 |
| 0715    | 001    |           5 |
| 0617    | 001    |           5 |
| 0702    | 001    |           5 |
| 0701    | 001    |           5 |
| 0716    | 001    |           5 |
| 0708    | 001    |           5 |
| 0505    | 001    |           7 |
| 0720    | 001    |           7 |
| 0705    | 001    |           7 |
| 0620    | 001    |           7 |
| 0701    | 001    |           7 |
| 0714    | 001    |           7 |
| 0502    | 001    |           7 |
| 0504    | 001    |           7 |
| 0615    | 001    |           7 |
| 0501    | 001    |           7 |
| 0508    | 001    |           7 |
| 0507    | 001    |           7 |
| 0805    | 001    |           7 |
| 0715    | 001    |           7 |
| 0806    | 001    |           7 |
| 0505    | 001    |           7 |
| 0619    | 001    |           7 |
| 0503    | 001    |           7 |
| 0702    | 001    |           7 |
```

```
| 0702    | 001    |           7 |
| 0703    | 001    |           7 |
| 0506    | 001    |           7 |
| 0704    | 001    |           8 |
| 0713    | 001    |           9 |
| 0618    | 001    |          10 |
| 0714    | 001    |          10 |
| 0714    | 001    |          10 |
| 0501    | 001    |          10 |
| 0806    | 001    |          10 |
| 0504    | 001    |          10 |
| 0618    | 001    |          10 |
| 0501    | 001    |          10 |
| 0502    | 001    |          10 |
| 0507    | 001    |          10 |
+---------+--------+-------------+
96 rows in set (0.001 sec)
```